



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 174625

TO: Phillip Gambel
Location: REM/3E81/3C70
Art Unit: 1644 22
Friday, December 2, 2005
Case Serial Number: 09/751797

From: Toby Port
Location: Biotech-Chem Library
REM-1A59
Phone: 571-272-2523
toby.port@uspto.gov

Search Notes

Examiner Gambel,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Toby Port
X22523

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From: Chan, Christina
Sent: Monday, December 19, 2005 3:54 PM
To: Gambel, Phillip; STIC-Biotech/ChemLib
Subject: RE: 09751797 interference search PLEASE RUSH SEQUENCE INTERFERENCE SEARCH

Please rush. Thanks Chris

Chris Chan
TC 1600 New Hire Training Coordinator and SPE 1644
(571)-272-0841
Remsen, 3E89

-----Original Message-----

From: Gambel, Phillip
Sent: Monday, December 19, 2005 3:44 PM
To: Chan, Christina
Subject: 09751797 interference search PLEASE RUSH SEQUENCE INTERFERENCE SEARCH

christina

PLEASE RUSH SEQUENCE INTERFERENCE SEARCH for **09 / 751,797** AFTER FINAL

TO STIC-Biotech/ChemLib

please perform a **SEQUENCE INTERFERENCE SEARCH** for **09 / 751,797** in PAPER

against PENDING and U.S. Patents, PGPubs

SEQ ID NO: 7

SEQ ID NO: 8

SEQ ID NO 9

SeQ ID NO: 24

SEQ ID NO: 25

SEQ ID NO: 29

RECEIVED
DEC 19 2005
STIC/STIC-INT-2005

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

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GenCore version 5.1.6
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OM/nucleic - nucleic search, using sw model

Run on: December 20, 2005, 13:17:12 ; Search time 126.661 Seconds
(without alignments)
15704.028 Million cell updates/sec

Title: US-09-751-797-7
Perfect score: 1119
Sequence: 1 taacacggctctctctctac.....tggatatacataaaaaaaa 1119

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:*

1: /cgn2_6/ptodata/1/ina/1_COMB.seq:*

2: /cgn2_6/ptodata/1/ina/5_COMB.seq:*

3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*

4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*

5: /cgn2_6/ptodata/1/ina/H_COMB.seq:*

6: /cgn2_6/ptodata/1/ina/PCUS_COMB.seq:*

7: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*

8: /cgn2_6/ptodata/1/ina/RE_COMB.seq:*

9: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1119	100.0	1119	3	US-09-178-973B-7
2	1119	100.0	1119	3	US-09-419-568F-7
3	1119	100.0	1119	3	US-09-354-243B-7
4	1107.8	99.0	1166	3	US-10-084-298-3
5	1047.8	93.6	1111	3	US-09-178-973B-9
6	1047.8	93.6	1111	3	US-09-419-568F-9
7	1047.8	93.6	1111	3	US-09-354-243B-9
8	993.2	88.8	1050	3	US-10-090-365-40
9	601.4	53.7	7445	3	US-09-178-973B-8
10	601.4	53.7	7445	3	US-09-419-568F-8
11	601.4	53.7	7445	3	US-09-354-243B-8
12	555.2	49.6	5935	3	US-09-178-973B-17
13	555.2	49.6	5935	3	US-09-419-568F-29
14	555.2	49.6	5935	3	US-09-354-243B-29
15	535.2	47.8	1191	3	US-10-084-298-1
16	524.8	46.9	1152	3	US-09-870-574-1
17	524.8	46.9	1116	3	US-10-090-365-14
18	524.4	46.9	1116	3	US-09-728-911-14
19	409.2	36.6	689	3	US-09-949-016-5443
20	409.2	36.6	690	3	US-09-419-568F-24
21	409.2	36.6	690	3	US-09-354-243B-24
22	216.6	19.4	8888	3	US-09-949-016-17185
23	186.2	16.6	191	3	US-10-084-298-9
24	126	11.3	4797	3	US-09-419-568F-25

ALIGNMENTS

RESULT 1

US-09-178-973B-7
; Sequence 7, Application US/09178973B
; Patent No. 6274710
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac.
; TITLE OF INVENTION: (TIFFS)
; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543
; CURRENT APPLICATION NUMBER: US/09/178,973B
; CURRENT FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 17
; SEQ ID NO 7
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-178-973B-7

Query Match	100.0%;	Score 1119;	DB 3;	Length 1119;
Best Local Similarity	100.0%;	Pred. No. 3.3e-272;		
Matches 1119;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	TAAACAGGCTCTCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC	60	
Db	1	TAAACAGGCTCTCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC	60	
Qy	61	CTGCAGAAATCTATGAGTTTTCCTTATGGGACTTTGGCCGACGTCGCTGCTCTC	120	
Db	61	CTGCAGAAATCTATGAGTTTTCCTTATGGGACTTTGGCCGACGTCGCTGCTCTC	120	
Qy	121	ATTGCGCTGTGGGCCAGAGGCAATGCGTCCGCTCAACACCCGCGTGAAGCTTGAG	180	
Db	121	ATTGCGCTGTGGGCCAGAGGCAATGCGTCCGCTCAACACCCGCGTGAAGCTTGAG	180	
Qy	181	GTGTCCAACTTCCAGCAGCGGTACATGTCGTCACCGACCTTTATGCTGGCCAGAGGCC	240	
Db	181	GTGTCCAACTTCCAGCAGCGGTACATGTCGTCACCGACCTTTATGCTGGCCAGAGGCC	240	
Qy	241	AGCCTTGCAGATAACAACACAGACGTCGCGCTCATCGGGAGAGAACTGTTCCGAGGAGTC	300	
Db	241	AGCCTTGCAGATAACAACACAGACGTCGCGCTCATCGGGAGAGAACTGTTCCGAGGAGTC	300	
Qy	301	AGTGCTAAAGATCAGTGCTACCTGTGATGAACAGGCTGCTCAACTTCACTCCCTGGAAGCGTT	360	
Db	301	AGTGCTAAAGATCAGTGCTACCTGTGATGAACAGGCTGCTCAACTTCACTCCCTGGAAGCGTT	360	

Db 901 AGCTATGTAACCTTCATTCCTCATATCCAAATATTTTATATATGTAAGTTTATTTATTTATATAA 960
Qy 961 GTATACATTTTATTTATGTCAGTTTATTAATATGAGTTTATTTATAGAAAACATTTATCTGC 1020
Db 961 GTATACATTTTATTTATGTCAGTTTATTAATATGAGTTTATTTATAGAAAACATTTATCTGC 1020
Qy 1021 TATGATATTTATGTAAGGCAATATATTTATGCAATTAATGGAACCAAGATATC 1080
Db 1021 TATGATATTTATGTAAGGCAATATATTTATGCAATTAATGGAACCAAGATATC 1080
Qy 1081 TTAGGCTTTAATAAACACATGGATATCATATAAAAAAAA 1119
Db 1081 TTAGGCTTTAATAAACACATGGATATCATATAAAAAAAA 1119

RESULT 3
US-09-354-243B-7
; Sequence 7, Application US/09354243B
; Patent No. 6359117
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Pa
; TITLE OF INVENTION: (Tifs)
; FILE REFERENCE: LUD 5543.1
; CURRENT FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 7
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-354-243B-7

Query Match 100.0%; Score 1119; DB 3; Length 1119;
Best Local Similarity 100.0%; Pred. No. 3.3e-272;
Matches 1119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TAAACAGGCTCTCTCTCACTATCAACTGTGACACTGTGCGATCTCTGATGGCTGTC 60
Db 1 TAAACAGGCTCTCTCTCACTATCAACTGTGACACTGTGCGATCTCTGATGGCTGTC 60
Qy 61 CTGCAGAAATCTATGATTTTTCCTTATGGGACCTTTGGCGCCAGCTGCTGCTTCTC 120
Db 61 CTGCAGAAATCTATGATTTTTCCTTATGGGACCTTTGGCGCCAGCTGCTGCTTCTC 120
Qy 121 ATTGCCCTGTGGCCAGGAGGCAAAATGCGCTGCGCTCAACACCCGGTGCAAGCTTGAG 180
Db 121 ATTGCCCTGTGGCCAGGAGGCAAAATGCGCTGCGCTCAACACCCGGTGCAAGCTTGAG 180
Qy 181 GTGTCCAACTTCCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAAAGGAGCC 240
Db 181 GTGTCCAACTTCCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAAAGGAGCC 240
Qy 241 AGCTTTCAGATTAACAACAGACGTCGGGTATATCGGGAGAGAACTGTTCCGAGGAGTC 300
Db 241 AGCTTTCAGATTAACAACAGACGTCGGGTATATCGGGAGAGAACTGTTCCGAGGAGTC 300
Qy 301 AGTGCTAAAGATCAGTCTACCTGATGACAGCGGTCTCACTTCACTCGGAGAGCGTT 360
Db 301 AGTGCTAAAGATCAGTCTACCTGATGACAGCGGTCTCACTTCACTCGGAGAGCGTT 360
Qy 361 CTGCTCCCGCAGTCAGACAGGTTCCAGCCCTACATGACAGAGGTGGTACCTTTCTTGACC 420
Db 361 CTGCTCCCGCAGTCAGACAGGTTCCAGCCCTACATGACAGAGGTGGTACCTTTCTTGACC 420
Qy 421 AAACATGACAAATCAGCTCAGCTCTGTGTCATCAGCGGTGACGACCAAGAAATCCAGAG 480

Db 421 AAACATGACAAATCAGCTCAGCTCCTGTTCATCATCAGCGGTGACGACCAAGAAATCCAGAG 480
Qy 481 AATGTGAGAGGCTGAAGGAGAGACAGTGAAGAGCTTTGGAGAGAGTGGAGAGATCAAGGCG 540
Db 481 AATGTGAGAGGCTGAAGGAGAGACAGTGAAGAGCTTTGGAGAGAGTGGAGAGATCAAGGCG 540
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Db 541 ATTGGGGAACATGACCTGCTGTTTATGTCCTGAGAAATGCTTGGCTCTGAGCGAGAGAA 600
Qy 601 AGCTAGAAACGAAAGAACTGCTCCTCTCCCTCTTAAAGAAACAAATAGATCCCTGAA 660
Db 601 AGCTAGAAACGAAAGAACTGCTCCTCTCCCTCTTAAAGAAACAAATAGATCCCTGAA 660
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Db 661 TGGACTTTTTTACTAAAGGAAAGTGAAGAACTAACGTCCTCATCATCATTTAGAAAGATTTTAC 720
Qy 721 ATGAAACCTGGCTCAGTTGAAAGAAAGATAGTGTCAAGTTGTCCATGAGACCAAGAGTA 780
Db 721 ATGAAACCTGGCTCAGTTGAAAGAAAGATAGTGTCAAGTTGTCCATGAGACCAAGAGTA 780
Qy 781 GACTTGATTAACCAAGAAATTCATTCACATATTTTATGCTCACTGATGATACCAAGAA 840
Db 781 GACTTGATTAACCAAGAAATTCATTCACATATTTTATGCTCACTGATGATACCAAGAA 840
Qy 841 AAATAATGACTTTTAAAAAATTTGTTGAAAGAGGTTTACCTCTCATTTCTTTAGAAAAA 900
Db 841 AAATAATGACTTTTAAAAAATTTGTTGAAAGAGGTTTACCTCTCATTTCTTTAGAAAAA 900
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Db 1021 TATTTGATTTTATGTAAGGCAATTAATTTATGCAATTAATTTATGCAATTAATTTATGCA 1080
Qy 1081 TTAGGCTTTAATAAACACATGGATATCATATAAAAAAAA 1119
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RESULT 4
US-10-084-298-3
; Sequence 3, Application US/10084298
; Patent No. 6939545
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: Pittman, Debra
; APPLICANT: Fouser, Lynette
; APPLICANT: Spaulding, Vikki
; APPLICANT: Xuan, Dejun
; TITLE OF INVENTION: Composition and Method for Treating Inflammatory
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: G15358 CIP
; CURRENT APPLICATION NUMBER: US/10/084,298
; CURRENT FILING DATE: 2002-09-10
; PRIOR APPLICATION NUMBER: 60/270,823
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/281,353
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: 60/131,473
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/561,811
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3

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; LENGTH: 1166
; TYPE: DNA
; ORGANISM: Murine
US-10-084-298-3

Query Match      99.0%; Score 1107.8; DB 3; Length 1166;
Best Local Similarity 99.4%; Pred. No. 2.2e-269;
Matches 1112; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 TAAACAGGCTCTCCTCTCACTTATCAACTGTTGACACTGTGTGGGATCTCTGATGGCTGTC 60
Db 24 TAAACAGGCTCTCCTCTCAGTTATCAACTGTTGACACTGTGTGGGATCTCTGATGGCTGTC 83

Qy 61 CTGCAGAAATCTATGAGTCTTCCCTTATGGGACTTTTGGCCGCCAGCTGCTGCTTCTC 120
Db 84 CTGCAGAAATCTATGAGTCTTCCCTTATGGGACTTTTGGCCGCCAGCTGCTGCTTCTC 143

Qy 121 ATTGCCCTGTGGGCCCAGGAGGCAAAATGCGCTGCGCCGTCACACCCCGGTGCAAGCTTTGAG 180
Db 144 ATTGCCCTGTGGGCCCAGGAGGCAAAATGCGCTGCGCCGTCACACCCCGGTGCAAGCTTTGAG 203

Qy 181 GTGTCCAACTTCCAGAGCCGTATCATGTCMAACCGGACCTTTATGTGTGGCCAGAGGAGGCC 240
Db 204 GTGTCCAACTTCCAGAGCCATACATGCTCAACCGCACCTTTATGTGTGGCCAGAGGAGGCC 263

Qy 241 AGCCTTCGAGATAACAACAGACGTCGCGCTCATCGGGGAGAACTGTTCCGAGGAGTC 300
Db 264 AGCCTTCGAGATAACAACAGACGTCGCGCTCATCGGGGAGAACTGTTCCGAGGAGTC 323

Qy 301 AGTGCTAAAGATCAGTGTCTACTCATGAAGCAGGTGCTCAACTTCAACCTCGGAAGAGCTT 360
Db 324 AGTGCTAAAGATCAGTGTCTACTCATGAAGCAGGTGCTCAACTTCAACCTCGGAAGAGCTT 383

Qy 361 CTGCTCCGCCAGTCAGACAGGTTCCAGCCCTACATGAGGAGGTGTTACCTTCTTCTGACC 420
Db 384 CTGCTCCGCCAGTCAGACAGGTTCCAGCCCTACATGAGGAGGTGTTACCTTCTTCTGACC 443

Qy 421 AAATCAGCANTCAGCTCCTGTCACATCAGCGGTGACGACCAAGACATCCAGAG 480
Db 444 AAATCAGCANTCAGCTCCTGTCACATCAGCGGTGACGACCAAGACATCCAGAG 503

Qy 481 AATGTCAGAGGCTGAAAGGAGACAGTGAAGAGCTTGGAGAGTGGAGAGATCAAGGCG 540
Db 504 AATGTCAGAGGCTGAAAGGAGACAGTGAAGAGCTTGGAGAGTGGAGAGATCAAGGCG 563

Qy 541 ATTGGGAACTGGAACCTGCTGTTTATGTCCTGAGAAATGTTGCGTCTGAGCGAGAAGA 600
Db 564 ATTGGGAACTGGAACCTGCTGTTTATGTCCTGAGAAATGTTGCGTCTGAGCGAGAAGA 623

Qy 601 AGCTAGAAACGAAAGACTGCTCCTCTGCTGCTTCTTAAAGAGACATATAGATCCCTGAA 660
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Qy 721 ATGAAACCTGCTCAGTTGAAAAAGAAATAGTGTCAAGTTGTCCATGAGACCCAGAGGTA 780
Db 744 ATGAAACCTGCTCAGTTGAAAAAGAAATAGTGTCAAGTTGTCCATGAGACCCAGAGGTA 803

Qy 781 GACTTGATAACCAAGAGATTCATGCAATATTTTATTTTGTCACTGATGATACACAGAA 840
Db 804 GACTTGATAACCAAGAGATTCATGCAATATTTTATTTTGTCACTGATGATACACAGAA 863

Qy 841 AAATAATGTAATTTTAAAAAATTTTGAAGAGGTTTACCTCTCATTTCTTTAGAAAAA 900
Db 864 AAATAATGTAATTTTAAAAAATTTTGAAGAGGTTTACCTCTCATTTCTTTAGAAAAA 923

Qy 901 AGCTTATGTAATCTTCATTTCCATATCCAAATTTTATATATGTAAGTTTATTTATATA 960
Db 924 AGCTTATGTAATCTTCATTTCCATACCAATATTTTATATATGTAAGTTTATTTATATA 983

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RESULT 5

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US-09-178-973B-9
; Sequence 9, Application US/09178973B
; Patent No. 6274710
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhier, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: (TIPS)
; FILE REFERENCE: LUD 5543
; CURRENT APPLICATION NUMBER: US/09/178,973B
; CURRENT FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 17
; SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-178-973B-9

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Query Match 93.6%; Score 1047.8; DB 3; Length 1111;
Best Local Similarity 97.0%; Pred. No. 3e-254;
Matches 1078; Conservative 0; Mismatches 32; Indels 1; Gaps 1;

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Qy 3 AACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGCTCCT 62
Db 1 AACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGCTCCT 60

Qy 63 GCAGAAATCTATGAGTCTTCCCTTATGGGACATTTTGGCCGCCAGCTGCTGCTTCTCAT 122
Db 61 GCAGAAATCTATGAGTCTTCCCTTATGGGACATTTTGGCCGCCAGCTGCTGCTTCTCAT 120

Qy 123 TGGCCTGTGGCCCGAGGAGCAAAATGCGTGTCCCGTCAACACCCGGTGAAGCTTGAGGT 182
Db 121 TGGCCTGTGGCCCGAGGAGCAAAATGCGTGTCCCGTCAACACCCGGTGAAGCTTGAGGT 180

Qy 183 GTCCNACTTCCAGAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGAGGAGCCAG 242
Db 181 GTCCNACTTCCAGAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGAGGAGCCAG 240

Qy 243 CCTTGCAGATAAACAACAACAGACGTCCTGCTCATCGGGGAGAAAATGTTCCGAGAGTCAAG 302
Db 241 CCTTGCAGATAAACAACAACAGACGTCCTGCTCATCGGGGAGAAAATGTTCCGAGAGTCAAG 300

Qy 303 TGCTAAAGATCAGTGTCTTCTGATGAAGAGGCTGCTCAACTTCAACCTGGAAGAGCTTCT 362
Db 301 TGCTAAAGATCAGTGTCTTCTGATGAAGAGGCTGCTCAACTTCAACCTGGAAGAGCACTTCT 360

Qy 363 GCTCCCCCAGTCAAGAGGTTCCAGCCCTACATGACGAGGTTGCTACCTTCTTCCAGACCA 422
Db 361 GCTCCCCCAGTCAAGAGGTTCCAGCCCTACATGACGAGGTTGCTACCTTCTTCCAGACCA 420

Qy 423 ACTCAGCAATCAGCTCAGCTCCTGTCACTCAGCGGTGACGACCAAGAAATCCAGAGAA 482
Db 421 ACTCAGCAATCAGCTCAGCTCCTGTCACTCAGTGTGACGACCAAGAAATCCAGAGAA 480

Qy 483 TGTGAGAGGCTGAAGAGAGACAGTGAAGAAAGCTTTGGAGAGAGTGGAGAGATCAAGGCGAT 542
Db 481 TGTGAGAGGCTGAAGAGAGACAGTGAAGAAAGCTTTGGAGAGAGTGGAGAGATCAAGGCGAT 540

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QY 543 TGGGAACTGGACCTGCTGTTTATGCTCTGAGAAATGCTTGGCTCTGAGCGAGAGAAG 602
DB 541 CGGGAACTGGACCTGCTGTTTATGCTCTGAGAAATGCTTGGCTCTGAGCGAGAGAAG 600
QY 603 CTAGAAAACGAAGACTGCTCTCTGCTCTCTTCTTAAAGAAACAAATAGATCCCTGAATG 662
DB 601 CTAGAAAACGAAGACTGCTCTCTGCTCTCTTCTTAAAGAAACAAATAGATCCCTGAATG 660
QY 663 GACTTTTAAAGGAAAGTGAAGAGCTAAACGCTCCATCATCATATTAGAGATTTACAT 722
DB 661 GACTTTTAAAGGAAAGTGAAGAGCTAAACGCTCCACCATCATATTAGAGATTTACAT 720
QY 723 GAAACCTGGCTCAGTTGAAAGAAAGAAATAGTGTCAAGTTGCTCCATGAGACCAAGGTPAG 782
DB 721 GAAACCTGGCTCAGTTGAAAGAGAAATAGTGTCAAGTTGCTCCATGAGACCAAGGTPAG 780
QY 783 CTTGATAACCAAGAGTCAATGACAAATATTTATGTCACCTGATGATACACAGAAA 842
DB 781 CTTGATAACCAAGAGTCAATGACAAATATTTATGTCATGATTAATGACAAAGAAA 840
QY 843 ATATGTACTTTAAAGAAATGTTTAAAGAGGTTACTCTCATTTCTTTAGAAAAG 902
DB 841 AGTATGTACTTTAAAGAAATGTTTAAAGAGGTTACTCTCATTTCTTTAGAAAAG 900
QY 903 CTTATGTAACCTTCAATTTCCATATCCAATATTTTATATATGTAAGTTTATTTATAAGT 962
DB 901 CCTATGTAACCTTCAATTTCCATATCCAATATTTTATATATGTAAGTTTATTTATAAGT 960
QY 963 ATACATTTTATTTATGTACGTTTAAATATGATGATTTATTTATAGAAAACATATCT 1022
DB 961 ATACATTTTATTTATGTACGTTTAAATATGATGATTTATTTATAGAAAACATATCT 1020
QY 1023 TTGATATTT-AGTATAGGCAAAATAATATTTATGACAAATAACTATGGAACAGATATCT 1081
DB 1021 TTGATATTTAGTATAGCAAAATAATATTTATGATAATAACTATAGAAAACAGATATCT 1080
QY 1082 TAGGCTTTTAAACACATGGATATCATAAA 1112
DB 1081 TAGGCTTTTAAACACATGAATATCATAAA 1111

RESULT 6
US-09-419-568F-9
; Sequence 9, Application US/09419568F
; Patent No. 6331613
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fad
; FILE REFERENCE: (Tifs) The Proteins Encoded, and Uses Thereof
; CURRENT APPLICATION NUMBER: US/09/419,568F
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-419-568F-9

Query Match 93.6%; Score 1047.8; DB 3; Length 1111;
Best Local Similarity 97.0%; Pred. No. 3e-254;
Matches 1078; Conservative 0; Mismatches 32; Indels 1; Gaps 1;

QY 3 AACAGGCTCTCTCTCAGTTATCAAACTTTTGACACATTTGTCGATCGGTGATGGCTGTCCT 62
|||||
DB 63 GCAGAAATCTATGAGTTTTTCCCTTATGGGGAATTTTGGCCGCCAGCTGCTGCTTCTCAT 122
|||||
DB 61 GCAGAAATCTATGAGTTTTTCCCTTATGGGGAATTTTGGCCGCCAGCTGCTGCTTCTCAT 120
|||||
QY 123 TGGCCTGTGGGCCAGAGGCAAAATGCGCTGCCGCTCAACACCGGGTGAAGCTTAGGTT 182
|||||
DB 121 TGGCCTGTGGGCCAGAGGCAAAATGCGCTGCCGCTCAACACCGGGTGAAGCTTAGGTT 180
|||||
QY 183 GTCCTAACTTCCACGACGCTGACATCTGCAACCCGACCTTTATGCTGSCCAAGAGGCGCAG 242
|||||
DB 181 GTCCTAACTTCCACGACGCTGACATCTGCAACCCGACCTTTATGCTGSCCAAGAGGCGCAG 240
|||||
QY 243 CTTTGAGATATAACACACAGAGCTCCGGCTCATCGGGGGAATACTGTTCCGAGAGTCAG 302
|||||
DB 241 CTTTGAGATATAACACACAGAGCTCCGGCTCATCGGGGGAATACTGTTCCGAGAGTCAG 300
|||||
QY 303 TGTCTAAAGATCAGTGTCTGATGAAAGAGGCTGCTCAACTTCACTTCCCTGGAAGACGTTCT 362
|||||
DB 301 TGTCTAAAGATCAGTGTCTGATGAAAGAGGCTGCTCAACTTCACTTCCCTGGAAGACGTTCT 360
|||||
QY 363 GCTCCCCCAGTCAGAGGTTCCAGCCCTACATGACGAGGCTGCTACTTTCTTGACCAA 422
|||||
DB 361 GCTCCCCCAGTCAGAGGTTCCAGCCCTACATGACGAGGCTGCTACTTTCTTGACCAA 420
|||||
QY 423 ACTCAGCAATCAGCTCAGCTCTGTCACATCAGCGGTGACGACAGAACATCCAGAGAAG 482
|||||
DB 421 ACTCAGCAATCAGCTCAGCTCTGTCACATCAGTGTGACGACAGAACATCCAGAGAAG 480
|||||
QY 483 TGTCTCAGAGGCTGAAAGAGACAGTGAAGAGCTTTGGAGAGAGTGGAGAGATCAAGGCGAT 542
|||||
DB 481 TGTCTCAGAGGCTGAAAGAGACAGTGAAGAGCTTTGGAGAGAGTGGAGAGATCAAGGCGAT 540
|||||
QY 543 TGGGAACTGGACCTGCTGTTTATGCTCTGAGAAATGCTTGGCTCTGAGCGAGAGAAG 602
DB 541 CGGGAACTGGACCTGCTGTTTATGCTCTGAGAAATGCTTGGCTCTGAGCGAGAGAAG 600
|||||
QY 603 CTAGAAAACGAAGACTGCTCTCTGCTCTCTTCTTAAAGAAACAAATAGATCCCTGAATG 662
DB 601 CTAGAAAACGAAGACTGCTCTCTGCTCTCTTCTTAAAGAAACAAATAGATCCCTGAATG 660
|||||
QY 663 GACTTTTAAAGGAAAGTGAAGAGCTAAACGCTCCATCATCATATTAGAGATTTCTCAT 722
|||||
DB 661 GACTTTTAAAGGAAAGTGAAGAGCTAAACGCTCCACCATCATATTAGAGATTTCTCAT 720
|||||
QY 723 GAAACCTGGCTCAGTTGAAAGAAAGAAATAGTGTCAAGTTGCTCCATGAGACCAAGGTPAG 782
DB 721 GAAACCTGGCTCAGTTGAAAGAGAAATAGTGTCAAGTTGCTCCATGAGACCAAGGTPAG 780
|||||
QY 783 CTTGATAACCAAGAGTCAATGACAAATATTTATGTCACCTGATGATACACAGAAA 842
DB 781 CTTGATAACCAAGAGTCAATGACAAATATTTATGTCATGATTAATGACAAAGAAA 840
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QY 843 ATATGTACTTTAAAGAAATGTTTAAAGAGGTTACTCTCATTTCTTTAGAAAAG 902
DB 841 AGTATGTACTTTAAAGAAATGTTTAAAGAGGTTACTCTCATTTCTTTAGAAAAG 900
|||||
QY 903 CTTATGTAACCTTCAATTTCCATATCCAATATTTTATATATGTAAGTTTATTTATAAGT 962
DB 901 CTTATGTAACCTTCAATTTCCATATCCAATATTTTATATATGTAAGTTTATTTATAAGT 960
|||||
QY 963 ATACATTTTATTTATGTACGTTTAAATATGATGATTTATTTATAGAAAACATATCTGCTA 1022
DB 961 ATACATTTTATTTATGTACGTTTAAATATGATGATTTATTTATAGAAAACATATCTGATG 1020
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QY 1023 TTGATATTT-AGTATAGGCAAAATAATATTTATGACAAATAACTATGGAACAGATATCT 1081
DB 1021 TTGATATTTAGTATAGCAAAATAATATTTATGATAATAACTATAGAAAACAGATATCT 1080
|||||
QY 1082 TAGGCTTTTAAACACATGGATATCATAAA 1112
DB 1081 TAGGCTTTTAAACACATGAATATCATAAA 1111
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RESULT 7
US-09-354-243B-9
; Sequence 9, Application US/09354243B
; Patent No. 6359117
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Pa
; TITLE OF INVENTION: (Tifs)
; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.1
; CURRENT APPLICATION NUMBER: US/09/354,243B
; CURRENT FILING DATE: 1999-07-16
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-354-243B-9

Query Match      93.6%; Score 1047.8; DB 3; Length 1111;
Best Local Similarity 97.0%; Pred. No. 3e-254;
Matches 1078; Conservative 0; Mismatches 32; Indels 1; Gaps 1;

Qy 3 AACAGGCTCTCTCTCACTTATCAACTGTGTGACACTGTGTGCGATCTCTGATGGCTGTCT 62
Db 1 AACAGGCTCTCTCTCACTTATCAACTGTGTGACACTGTGTGCGATCTCTGATGGCTGTCT 60

Qy 63 GCAGAAATCTATGATGTTTTCCCTTATGGGACATTTGGCCGCCAGCTGCCCTGTCTCAT 122
Db 61 GCAGAAATCTATGATGTTTTCCCTTATGGGACATTTGGCCGCCAGCTGCCCTGTCTCAT 120

Qy 123 TGCCTGTGGCCAGGAGGAATGCGCTGCGCTCAACCCGCTCAACCCGCTGCAAGCTTGAGGT 182
Db 121 TGCCTGTGGCCAGGAGGAATGCGCTGCGCTCAACCCGCTCAACCCGCTGCAAGCTTGAGGT 180

Qy 183 GTCCAACTTCAGCAGCGCTACATCGTCAACCGCACCTTTATGTGCGCAAGGAGGCCAG 242
Db 181 GTCCAACTTCAGCAGCGCTACATCGTCAACCGCACCTTTATGTGCGCAAGGAGGCCAG 240

Qy 243 CTTTGCAGATAACAACACAGACGTCGGCTCATCGGGAGAAACTGTTCCGAGAGTCAG 302
Db 241 CTTTGCAGATAACAACACAGACGTCGGCTCATCGGGAGAAACTGTTCCGAGAGTCAG 300

Qy 303 TGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTCGGAGAGCTTCT 362
Db 301 TGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTCGGAGAGCAATTCT 360

Qy 363 GCTCCCCAGTCAGACAGGTTCCAGCCCTACATGCGAGGTTGCTACCTTCTCTGACCAA 422
Db 361 GCTCCCCAGTCAGACAGGTTCCAGCCCTACATGCGAGGTTGCTACCTTCTCTGACCAA 420

Qy 423 ACTCAGCAATCAGCTCAGCTCCTGTFCATCAGCGGTGACGACCGAACATCCAGAGAA 482
Db 421 ACTCAGCAATCAGCTCAGCTCCTGTFCATCAGTGGTGACGACCGAACATCCAGAGAA 480

Qy 483 TGTGAGAGGCTGAAGGAGACAGTGAAAGCTTGGAGAGAGTGAGAGATCAAGCGAT 542
Db 481 TGTGAGAGGCTGAAGGAGACAGTGAAAGCTTGGAGAGAGTGAGAGATCAAGCGAT 540

Qy 543 TGGGAACTGACACCTGCTGTTTATGCTCTCAGAGAAATGCTTTCGCTCTGAGCGAGAGAG 602
Db 541 CGGGAACTGACACCTGCTGTTTATGCTCTCAGAGAAATGCTTTCGCTCTGAGCGAGAGAG 600

Qy 603 CTAGAAAAACGAGAACTGCTCCTTCCCTGCTTTTAAAAAGAACATAAGATCCCTGATG 662
Db 601 CTAGAAAAACGAGAACTGCTCCTTCCCTGCTTTTAAAAAGAACATAAGATCCCTGATG 660

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Qy 663 GACTTTTTTACTAAAGGAAGTGAAGCTAAAGTCCATCATCATTAGAAAGATTTTCAT 722
Db 661 GACTTTTTTACTAAAGGAAGTGAAGCTAAAGTCCATCATCATTAGAAAGATTTTCAT 720

Qy 723 GAAACCTGGCTCAGTTGAAAGAAATAGTGTCAAGTTGTCCATGAGACGAGGTAGA 782
Db 721 GAAACCTGGCTCAGTTGAAAGAAATAGTGTCAAGTTGTCCATGAGACGAGGTAGA 780

Qy 783 CTTTGATACCAACCAAGATTCATTGACAAATATTTTATTTGTCACTGATGATCAACAGAAAA 842
Db 781 CTTTGATACCAACCAAGATTCATTGACAAATATTTTATTTGTCACTGATGATCAACAGAAAA 840

Qy 843 ATAATGTACTTTTAAAAAATTTGTTGAAAGGAGGTACCTCTCATTTCTTTAGAAAAAAG 902
Db 841 AGTATGTACTTTTAAAAAATTTGTTGAAAGGAGGTACCTCTCATTTCTTTAGAAAAAAG 900

Qy 903 CTTATGTAACCTTCATTTCCTCATATCCAAATATTTTATATATGTAAGTTTATTTATTAAGT 962
Db 901 CCTATGTAACCTTCATTTCCTCATATCCAAATATTTTATATATGTAAGTTTATTTATTAAGT 960

Qy 963 ATACATTTTATTTATGTGCTAGTTTATTAATATGATTTTATTTATAGAAACATTTATCTGTA 1022
Db 961 ATACATTTTATTTATGTGCTAGTTTATTAATATGATTTTATTTATAGAAAAATTTATCTGATG 1020

Qy 1023 TTGATATTT-AGTATAAGGCAAAATATATTTTATGACAAATTAATGAAAAACAAGATATCT 1081
Db 1021 TTGATATTTGATATAAGCAAAATATATTTTATGATATAATTAATGAAAAACAAGATATCT 1080

Qy 1082 TAGGCTTTAATAAACACATGGATATCAAAA 1112
Db 1081 TAGGCTTTAATAAACACATGAATATCAAAA 1111

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RESULT 8
US-10-090-365-40
; Sequence 40, Application US/10090365
; Patent No. 6875845
; GENERAL INFORMATION:
; APPLICANT: Preenell, Scott R.
; APPLICANT: Xu, Wenfeng
; APPLICANT: Kindsvogel, Wayne
; APPLICANT: Chen, Zhi
; TITLE OF INVENTION: Mouse Cytokine Receptor
; FILE REFERENCE: 01-08
; CURRENT APPLICATION NUMBER: US/10/090,365
; CURRENT FILING DATE: 2002-03-04
; PRIOR APPLICATION NUMBER: US 60/273,035
; PRIOR FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: US 60/279,232
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 1050
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (50)...(589)
US-10-090-365-40

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Query Match      88.8%; Score 993.2; DB 3; Length 1050;
Best Local Similarity 97.2%; Pred. No. 1.7e-240;
Matches 1021; Conservative 0; Mismatches 28; Indels 1; Gaps 1;

Qy 3 AACAGGCTCTCTCTCACTTATCAACTGTGTGACACTTTGTGCGATCTCTGATGGCTGTCT 62
Db 1 AACAGGCTCTCTCTCACTTATCAACTTTTGACACTTTGTGCGATCTCTGATGGCTGTCT 60

Qy 63 GCAGAAATCTATGATGTTTTTCCCTTATGGGACATTTGGCCGCCAGCTGCCCTGTCTCAT 122
Db 61 GCAGAAATCTATGATGTTTTTCCCTTATGGGACATTTGGCCGCCAGCTGCCCTGTCTCAT 120

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Qy	123	TG	CCTGTGGGCCGAGAGGGA	AATGCGCTGCCGTC	CAACCCCGTGCAAGCTT	GAGGT	182
Db	121	TG	CCTGTGGGCCGAGAGGGA	AATGCGCTGCCGTC	CAACCCCGTGCAAGCTT	GAGGT	180
Qy	183	GT	CCAACTTCCAGCAGCCG	TACATCGTCAACCGCACCTT	TATGCTGCGCCAGGAGGCCAG	242	
Db	181	GT	CCAACTTCCAGCAGCCG	TACATCGTCAACCGCACCTT	TATGCTGCGCCAGGAGGCCAG	240	
Qy	243	CTT	TGCAGATAAACAA	CACAGACGTC	CGGCTCATCGGGAGAAACTG	TTCGAGAGTTCAG	302
Db	241	CTT	TGCAGATAAACAA	CACAGACGTC	CGGCTCATCGGGAGAAACTG	TTCGAGAGTTCAG	300
Qy	303	TG	CTAAAGATCAGTGCTA	CTGTGATGAAGCAGGTGCT	CAACTCACTCGAAGACGTTCT	362	
Db	301	TG	CTAAGGATCAGTGCTA	CTGTGATGAAGCAGGTGCT	CAACTCACTCGAAGACGTTCT	360	
Qy	363	GCT	CCCCCAGTCAGACAG	GTTCCAGCCCTACATGCAGAGG	TGGTATCTTTCCTGACCAA	422	
Db	361	GCT	CCCCCAGTCAGACAG	GTTCCAGCCCTACATGCAGAGG	TGGTATCTTTCCTGACCAA	420	
Qy	423	ACT	CAGCAATCAGCTCAG	CTCCTGTGCATCAGCGGTGAC	CGACAGAAACATCCAGAAGAA	482	
Db	421	ACT	CAGCAATCAGCTCAG	CTCCTGTGCATCAGCGGTGAC	CGACAGAAACATCCAGAAGAA	480	
Qy	483	TGT	CAGAAGGCTGAAGGAG	CAGTGGAAGAAAGCTT	TGGAGAGAGTGAGAGATCAAGGCGAT	542	
Db	481	TGT	CAGAAGGCTGAAGGAG	CAGTGGAAGAAAGCTT	TGGAGAGAGTGAGAGATCAAGGCGAT	540	
Qy	543	TGG	GGAACTCGAACCTGCT	GTTATATGCTCTGAGAAATG	CTTGGCTCTGAGGAGAGAAG	602	
Db	541	CGG	GGAACTCGAACCTGCT	GTTATATGCTCTGAGAAATG	CTTGGCTCTGAGGAGAGAAG	600	
Qy	603	CT	AGAAAACGAGAAC	CTGCTCTTCCTGCTTCTTAA	AGAAACAAATAGATCCCTGGAATG	662	
Db	601	CT	AGAAAACGAGAAC	CTGCTCTTCCTGCTTCTTAA	AGAAACAAATAGATCCCTGGAATG	660	
Qy	663	GAC	TTTTTTTACTAAAGGAA	AGTGAGAGCTAAACGTCCAT	CATCATTTAGAAGATTTACAT	722	
Db	661	GAC	TTTTTTTACTAAAGGAA	AGTGAGAGCTAAACGTCCAT	CATCATTTAGAAGATTTACAT	720	
Qy	723	GA	AACCTGGCTCAGTTG	AAAAAGAAATAGTGTCAAGT	TGTCCATGAGACGAGAGTAGA	782	
Db	721	GA	AACCTGGCTCAGTTG	AAAAAGAAATAGTGTCAAGT	TGTCCATGAGACGAGAGTAGA	780	
Qy	783	CTT	GATTAACCAAGAATTC	ATTGACAAATATTTTATT	TGTGCTCATGATGATCAACAGAAAA	842	
Db	781	CTT	GATTAACCAAGAATTC	ATTGACAAATATTTTATT	TGTGCTCATGATGATCAACAGAAAA	840	
Qy	843	ATA	TGTACTTTTAAAAAAT	TGTTTGAAGAGGGTTAC	CTCTCATCTTCTTTAGAAAAAAG	902	
Db	841	AGT	ATGTACTTTTAAAAAAT	TGTTTGAAGAGGGTTAC	CTCTCATCTTCTCTAGAAAAAAG	900	
Qy	903	CTT	ATGTAACTTCATTTT	CCATATCCCAATATTTTAT	ATATGATGAGTTTATTTATATAGT	962	
Db	901	CTT	ATGTAACTTCATTTT	CCATATCCCAATATTTTAT	ATATGATGAGTTTATTTATATAGT	960	
Qy	963	AT	ACATTTTATTTATG	TCAAGTTTATTAATATGGA	ATTTATTTATAGAAACATTTATCTGCTA	1022	
Db	961	AT	ACATTTTATTTATG	TCAAGTTTATTAATATGGA	ATTTATTTATAGAAACATTTATCTGCTA	1020	
Qy	1023	TT	GATATTTT-AGTAT	TAAGGCAATAATATT	1051		
Db	1021	TT	GATATTTT-AGTAT	TAAGGCAATAATATT	1050		

RESULT 9

US-09-178-973B-8
; Sequence 8, Application US/09178973B
; Patent No. 6274710
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila

RESULT 10
US-09-419-568F-8

```

; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic
; TITLE OF INVENTION: (TIFs) The Prot

```

; FILE REFERENCE: LUD 5543.2
 ; CURRENT APPLICATION NUMBER: US/09/419,568F
 ; CURRENT FILING DATE: 1999-10-18
 ; PRIOR APPLICATION NUMBER: US09/354,243
 ; PRIOR FILING DATE: 1999-07-16
 ; PRIOR APPLICATION NUMBER: US09/178,973
 ; PRIOR FILING DATE: 1998-10-26
 ; NUMBER OF SEQ ID NOS: 29
 ; SEQ ID NO 8
 ; LENGTH: 7445
 ; TYPE: DNA
 ; ORGANISM: Mus musculus
 ; FEATURE:
 US-09-419-568F-8

Query Match		53.7%	Score 601.4;	DB 3;	Length 7445;
Best Local Similarity		99.8%	Pred. No. 2.6e-141;		
Matches 602;		Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;

Qy	510	AAAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGGACCTGCTGTTTATGTC	569
Db	6535	ATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGGACCTGCTGTTTATGTC	6594
Qy	570	TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAAGAACTGCTCCTTCT	629
Db	6595	TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAAGAACTGCTCCTTCT	6654
Qy	630	GCCTTCTAAAAGAACAAATAGATCCCTGAATGACCTTTTACTAAAGGAAAGTGAGAA	689
Db	6655	GCCTTCTAAAAGAACAAATAGATCCCTGAATGACCTTTTACTAAAGGAAAGTGAGAA	6714
Qy	690	GCTAACGTCCTCATCATTTAGAACATTTACATGAAACCTGGCTCAGTTGAAAAAGAAA	749
Db	6715	GCTAACGTCCTCATCATTTAGAACATTTACATGAAACCTGGCTCAGTTGAAAAAGAAA	6774
Qy	750	TAGTGTCAAGTTGTCCATGAGACCGAGAGGTAGACTTGATACCAAGAAATTCATTGACA	809
Db	6775	TAGTGTCAAGTTGTCCATGAGACCGAGAGGTAGACTTGATACCAAGAAATTCATTGACA	6834
Qy	810	ATATTTTATGTCACCTGATGATACACAGAAAAATATGATCTTAAAAAATGTTGAA	869
Db	6835	ATATTTTATGTCACCTGATGATACACAGAAAAATATGATCTTAAAAAATGTTGAA	6894
Qy	870	AGGAGGTACCTCTCATTCTTTAGAAAAAAGCTTATGAACTTCAATTCATATCAA	929
Db	6895	AGGAGGTACCTCTCATTCTTTAGAAAAAAGCTTATGAACTTCAATTCATATCAA	6954
Qy	930	TATTTTATATGTAAGTTTATTTATATAAGTATACATTTTATTTATGTCAGTTTATTA	989
Db	6955	TATTTTATATGTAAGTTTATTTATATAAGTATACATTTTATTTATGTCAGTTTATTA	7014
Qy	990	ATATGGATTTTATATAGAAACATTTCTGCTATTTGATATTTAGTATAAGCAAAATAA	1049
Db	7015	ATATGGATTTTATTTATAGAAACATTTCTGCTATTTGATATTTAGTATAAGCAAAATAA	7074
Qy	1050	TTTATGACAAATCACTATGGAACAGATATCTTAGGCTTTAATAACACATGGATATCAT	1109
Db	7075	TTTATGACAAATCACTATGGAACAGATATCTTAGGCTTTAATAACACATGGATATCAT	7134
Qy	1110	AAA 1112	
Db	7135	AAA 7137	

RESULT 11
 US-09-354-243B-8
 ; Sequence 8, Application US/09354243B
 ; Patent No. 6359117
 ; GENERAL INFORMATION:
 ; APPLICANT: Dumoutier, Laure
 ; APPLICANT: Louhed, Jamila
 ; APPLICANT: Renaud, Jean-Christophe
 ; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fa

; TITLE OF INVENTION: (TIPS)
 ; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
 ; FILE REFERENCE: LUD 5543.1
 ; CURRENT APPLICATION NUMBER: US/09/354,243B
 ; CURRENT FILING DATE: 1999-07-16
 ; PRIOR APPLICATION NUMBER: US09/178,973
 ; PRIOR FILING DATE: 1998-10-26
 ; NUMBER OF SEQ ID NOS: 29
 ; SEQ ID NO 8
 ; LENGTH: 7445
 ; TYPE: DNA
 ; ORGANISM: Mus musculus
 ; FEATURE:
 US-09-354-243B-8

Query Match		53.7%	Score 601.4;	DB 3;	Length 7445;
Best Local Similarity		99.8%	Pred. No. 2.6e-141;		
Matches 602;		Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;

Qy	510	AAAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGGACCTGCTGTTTATGTC	569
Db	6535	ATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGGACCTGCTGTTTATGTC	6594
Qy	570	TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAAGAACTGCTCCTTCT	629
Db	6595	TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAAGAACTGCTCCTTCT	6654
Qy	630	GCCTTCTAAAAGAACAAATAGATCCCTGAATGACCTTTTACTAAAGGAAAGTGAGAA	689
Db	6655	GCCTTCTAAAAGAACAAATAGATCCCTGAATGACCTTTTACTAAAGGAAAGTGAGAA	6714
Qy	690	GCTAACGTCCTCATCATTTAGAACATTTACATGAAACCTGGCTCAGTTGAAAAAGAAA	749
Db	6715	GCTAACGTCCTCATCATTTAGAACATTTACATGAAACCTGGCTCAGTTGAAAAAGAAA	6774
Qy	750	TAGTGTCAAGTTGTCCATGAGACCGAGAGGTAGACTTGATACCAAGAAATTCATTGACA	809
Db	6775	TAGTGTCAAGTTGTCCATGAGACCGAGAGGTAGACTTGATACCAAGAAATTCATTGACA	6834
Qy	810	ATATTTTATGTCACCTGATGATACACAGAAAAATATGATCTTAAAAAATGTTGAA	869
Db	6835	ATATTTTATGTCACCTGATGATACACAGAAAAATATGATCTTAAAAAATGTTGAA	6894
Qy	870	AGGAGGTACCTCTCATTCTTTAGAAAAAAGCTTATGAACTTCAATTCATATCAA	929
Db	6895	AGGAGGTACCTCTCATTCTTTAGAAAAAAGCTTATGAACTTCAATTCATATCAA	6954
Qy	930	TATTTTATATGTAAGTTTATTTATATAAGTATACATTTTATTTATGTCAGTTTATTA	989
Db	6955	TATTTTATATGTAAGTTTATTTATATAAGTATACATTTTATTTATGTCAGTTTATTA	7014
Qy	990	ATATGGATTTTATATAGAAACATTTCTGCTATTTGATATTTAGTATAAGCAAAATAA	1049
Db	7015	ATATGGATTTTATTTATAGAAACATTTCTGCTATTTGATATTTAGTATAAGCAAAATAA	7074
Qy	1050	TTTATGACAAATCACTATGGAACAGATATCTTAGGCTTTAATAACACATGGATATCAT	1109
Db	7075	TTTATGACAAATCACTATGGAACAGATATCTTAGGCTTTAATAACACATGGATATCAT	7134
Qy	1110	AAA 1112	
Db	7135	AAA 7137	

RESULT 12
 US-09-178-973B-17
 ; Sequence 17, Application US/09178973B
 ; Patent No. 6274710
 ; GENERAL INFORMATION:
 ; APPLICANT: Dumoutier, Laure
 ; APPLICANT: Louhed, Jamila
 ; APPLICANT: Renaud, Jean-Christophe
 ; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac

; TITLE OF INVENTION: (TIPS)
; FILE REFERENCE: LUD 5543
; CURRENT APPLICATION NUMBER: US/09/178.973B
; CURRENT FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 17
; SEQ ID NO 17
; LENGTH: 5935
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-178-973B-17

Query Match 49.68; Score 555.2; DB 3; Length 5935;
Best Local Similarity 96.0%; Pred. No. 1.1e-129;
Matches 580; Conservative 0; Mismatches 23; Indels 1; Gaps 1;

QY 510 AAAGCTTGGAGAGAGTGGAGAGATCAAGCGGATTTGGGGAACCTGGACCTGCTGTTTATGTC 569
DB 5221 ATAGCTTGGAGAGAGCGGAGAGATCAAGCGATCGGGGAACCTGGACCTGCTGTTTATGTC 5280

QY 570 TCTGAGAAATGCTTGGCTCTGAGCGAGAAGAGCTAGAAAACGAAAGAACTGCTCCTTCCT 629
DB 5281 TCTGAGAAATGCTTGGCTCTGAGCGAGAAGAGCTAGAAAACGAAAGAACTGCTCCTTCCT 5340

QY 630 GCCTTCTAAAAGAACAAATAGATCCCTGAATGCACTTTTACTAAAGGAAAGTGAGAA 689
DB 5341 GCCTTCTAAAAGAACAAATAGATCCCTGAATGCACTTTTACTAAAGGAAAGTGAGAA 5400

QY 690 GCTAACCTGCATCATCATTTAGAGATTTCAATGAAACCTGGCTCAGTTGAAAAGAGAAA 749
DB 5401 GCTAACCTGCATCATCATTTAGAGATTTCAATGAAACCTGGCTCAGTTGAAAAGAGAAA 5460

QY 750 TAGTGTCACAGTTGTCATGAGACCGAGAGGTAGACTTGATTAACCAAGAGATTCAATTGACA 809
DB 5461 TAGTGTCACAGTTGTCATGAGACCGAGAGGTAGACTTGATTAACCAAGAGATTCAATTGACA 5520

QY 810 ATATTTTATGTCAGTATGATACACAGAAAATATATGTAATTTTAAAAAATGTTTGAA 869
DB 5521 ATATTTTATGTCAGTATGATACACAGAAAATATATGTAATTTTAAAAAATGTTTGAA 5580

QY 870 AGAGGTTTACCTCTCATTTCTTAGAAAAAAGCTTATGAACTTCCATATCCAA 929
DB 5581 AGAGGTTTACCTCTCATTTCTTAGAAAAAAGCTTATGAACTTCCATATCCAA 5640

QY 930 TATTTTATATATGTAAGTTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 989
DB 5641 TACTTTATATATGTAAGTTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 5700

QY 990 ATATGGATTTTATTAAGAACATTTCTGCTATTTGATATTT-AGTATAAGGCAAAATAAT 1048
DB 5701 ATATGGATTTTATTAAGAAAAATTTCTGATGTTGATATTTGATATAAGCAAAATAAT 5760

QY 1049 ATTTATGACATAACTATGAAACAGATATCTTAGGCTTTAATAACACATGATATCA 1108
DB 5761 ATTTATGATAATAACTATGAAACAGATATCTTAGGCTTTAATAACACATGATATCA 5820

QY 1109 TAAA 1112
DB 5821 TAAA 5824

RESULT 13
US-09-419-568F-29
; Sequence 29, Application US/09419568F
; Patent No. 631613
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: (TIPS) The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/09/419.568F

; CURRENT FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; CURRENT FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 29
; LENGTH: 5935
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-419-568F-29

Query Match 49.68; Score 555.2; DB 3; Length 5935;
Best Local Similarity 96.0%; Pred. No. 1.1e-129;
Matches 580; Conservative 0; Mismatches 23; Indels 1; Gaps 1;

QY 510 AAAGCTTGGAGAGAGTGGAGAGATCAAGCGGATTTGGGGAACCTGGACCTGCTGTTTATGTC 569
DB 5221 ATAGCTTGGAGAGAGCGGAGAGATCAAGCGATCGGGGAACCTGGACCTGCTGTTTATGTC 5280

QY 570 TCTGAGAAATGCTTGGCTCTGAGCGAGAAGAGCTAGAAAACGAAAGAACTGCTCCTTCCT 629
DB 5281 TCTGAGAAATGCTTGGCTCTGAGCGAGAAGAGCTAGAAAACGAAAGAACTGCTCCTTCCT 5340

QY 630 GCCTTCTAAAAGAACAAATAGATCCCTGAATGCACTTTTACTAAAGGAAAGTGAGAA 689
DB 5341 GCCTTCTAAAAGAACAAATAGATCCCTGAATGCACTTTTACTAAAGGAAAGTGAGAA 5400

QY 690 GCTAACCTGCATCATCATTTAGAGATTTCAATGAAACCTGGCTCAGTTGAAAAGAGAAA 749
DB 5401 GCTAACCTGCATCATCATTTAGAGATTTCAATGAAACCTGGCTCAGTTGAAAAGAGAAA 5460

QY 750 TAGTGTCACAGTTGTCATGAGACCGAGAGGTAGACTTGATTAACCAAGAGATTCAATTGACA 809
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QY 930 TATTTTATATATGTAAGTTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 989
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QY 990 ATATGGATTTTATTAAGAACATTTCTGCTATTTGATATTT-AGTATAAGGCAAAATAAT 1048
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QY 1109 TAAA 1112
DB 5821 TAAA 5824

RESULT 14
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; Sequence 29, Application US/09354243B
; Patent No. 6359117
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fa
; TITLE OF INVENTION: (TIPS)
; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof

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; FILE REFERENCE: LUD 5543.1
; CURRENT APPLICATION NUMBER: US/09/354,243B
; CURRENT FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 29
; LENGTH: 5935
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; US-09-354-243B-29

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Query Match 49.6%; Score 555.2; DB 3; Length 5935;
Best Local Similarity 96.0%; Pred. No. 1.1e-129;
Matches 580; Conservative 0; Mismatches 23; Indels 1; Gaps 1;

RESULT 15
US-10-084-298-1
; Sequence 1, Application US/10084298
; Patent No. 6939545
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: Pittman, Debra
; APPLICANT: Fouser, Lynette
; APPLICANT: Spaulding, Vikki
; APPLICANT: Xuan, Dejun
; TITLE OF INVENTION: Composition and Method for Treating Inflammatory

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OM nucleic - nucleic search, using sw model

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Perfect score: 1119
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Gapop 10.0 , Gapext 1.0

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Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
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2	1119	100.0	1119	7	US-10-627-273-7
3	1107.8	99.0	1166	5	US-10-084-298-3
4	1107.8	99.0	1166	6	US-10-256-977-3
5	1107.8	99.0	1166	8	US-10-873-972-3
6	1107.8	99.0	1166	10	US-11-157-387-3
7	1047.8	93.6	1111	3	US-09-751-797-9
8	1047.8	93.6	1111	7	US-10-627-273-9
9	993.2	88.8	1050	5	US-10-090-365-40
10	993.2	88.8	1050	5	US-10-104-919-42
11	993.2	88.8	1050	8	US-10-807-837-10
12	993.2	88.8	1050	9	US-10-968-432-42
13	993.2	88.8	1050	10	US-11-045-944-40
14	768.4	68.7	778	3	US-09-746-375-37
15	768.4	68.7	778	7	US-10-395-741B-37
16	768.4	68.7	778	7	US-10-806-294-37
17	601.4	53.7	7445	3	US-09-751-797-8
18	601.4	53.7	7445	7	US-10-627-273-8
19	595.2	49.6	5935	3	US-09-751-797-29
20	595.2	49.6	5935	7	US-10-627-273-29
21	535.2	47.8	1177	10	US-11-013-741-1
22	535.2	47.8	1177	10	US-11-013-920-1
23	535.2	47.8	1191	5	US-10-084-298-1

ALIGNMENTS

RESULT 1
US-09-751-797-7
; Sequence 7, Application US/09751797
; Patent No. US20010024652A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/09/751.797
; CURRENT FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 7
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-751-797-7

Query Match	100.0%;	Score 1119;	DB 3;	Length 1119;
Best Local Similarity	100.0%;	Pred. No. 1.1e-223;		
Matches 1119;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	TAAACAGGCTCTCTCTCACTTATCACTTGTGACACTTGTGCGATCTGTATGGCTGTC	60	
Db	1	TAAACAGGCTCTCTCTCACTTATCACTTGTGACACTTGTGCGATCTGTATGGCTGTC	60	
Qy	61	CTGCAGAAATCTATGAGTTTTTCCCTTATGGGAGCTTTGGCCGCGAGCTGCTGCTTCTC	120	
Db	61	CTGCAGAAATCTATGAGTTTTTCCCTTATGGGAGCTTTGGCCGCGAGCTGCTGCTTCTC	120	
Qy	121	ATTGCCCTGTGGGCCAGGAGGCAATGCGCTGCTCAACACCCGGTGAAGCTTGAG	180	
Db	121	ATTGCCCTGTGGGCCAGGAGGCAATGCGCTGCTCAACACCCGGTGAAGCTTGAG	180	
Qy	181	GTGTCACAACTTCCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAAAGAGGCC	240	
Db	181	GTGTCACAACTTCCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAAAGAGGCC	240	
Qy	241	AGCCTTGCAGATAACACACAGAGCTCCGGCTCATCGGGAGAAACTGTTTCCGAGGAGTC	300	

Db 241 AGCCTTCGAGTAAACAACAGACGTCGGGCTCATCGGGAGAACTGTTCCGAGGAGTC 300
Qy 301 AGTCTAAAGATCAGTGTACTCTGATGAAGCAGGTGTCTCAACTTTACCCCTGGAAGACGTT 360
Db 301 AGTCTAAAGATCAGTGTACTCTGATGAAGCAGGTGTCTCAACTTTACCCCTGGAAGACGTT 360
Qy 361 CTGCTCCCCAGTCAGACAGGTTCCAGCCCTACATGACGAGGTGTACCTTTCTCCTGACC 420
Db 361 CTGCTCCCCAGTCAGACAGGTTCCAGCCCTACATGACGAGGTGTACCTTTCTCCTGACC 420
Qy 421 AAATCTAGCAATCAGCTCAGCTCCTGTCTGTCACATCAGCGGTGACGACCAAGACATCCAGAAG 480
Db 421 AAATCTAGCAATCAGCTCAGCTCCTGTCTGTCACATCAGCGGTGACGACCAAGACATCCAGAAG 480
Qy 481 AATCTGAGAGGCTGGAAGGAGACAGTGAAGAAAGCTTGGAGAGGTGGAGAGATCAAGGCG 540
Db 481 AATCTGAGAGGCTGGAAGGAGACAGTGAAGAAAGCTTGGAGAGGTGGAGAGATCAAGGCG 540
Qy 541 ATTGGGNACTGGACCTGCTGTTATGTCCTGAGAAATGCTTGGCTGAGCGGAGAGA 600
Db 541 ATTGGGNACTGGACCTGCTGTTATGTCCTGAGAAATGCTTGGCTGAGCGGAGAGA 600
Qy 601 AGCTAGAAAAAGAAAGAACTGCTCTCTGCTTCTAAAAAGAAACAATAAGATCCCTGAA 660
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Db 661 TGGACTTTTAACTGAGAAAGTGAAGGCTAAAGCTAAAGCTCAATCATATTAGAAATTTTAC 720
Qy 721 ATGAAACCTGGCTCAGTTGAAAGAAAGTGAAGGCTAAAGCTCAATCATATTAGAAATTTTAC 780
Db 721 ATGAAACCTGGCTCAGTTGAAAGAAAGTGAAGGCTAAAGCTCAATCATATTAGAAATTTTAC 780
Qy 781 GACTTTGATTAACCAACAGAGATTCATGACAAATATTTATTTGTCACATGATGATCAACAGAA 840
Db 781 GACTTTGATTAACCAACAGAGATTCATGACAAATATTTATTTGTCACATGATGATCAACAGAA 840
Qy 841 AAATAATGTTACTTTAAAGAAATGTTTGAAGAGGTTTACCTCTCATTCCTTTAGAAAAA 900
Db 841 AAATAATGTTACTTTAAAGAAATGTTTGAAGAGGTTTACCTCTCATTCCTTTAGAAAAA 900
Qy 901 AGCTTATGTAATTTTCAATTTCCATATCCATATTTATATATATGTAAGTTTATTTATATAA 960
Db 901 AGCTTATGTAATTTTCAATTTCCATATCCATATTTATATATATGTAAGTTTATTTATATAA 960
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Qy 1081 TTAGCTTTAATAACACATGGATATCATAAAAA 1119
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RESULT 2
US-10-627-273-7
; Sequence 7, Application US/10627273
; Publication No. US20040110189A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; FILE REFERENCE: (Tifs) The Proteins Encoded, and Uses Thereof
; CURRENT APPLICATION NUMBER: US/10/627,273
; CURRENT FILING DATE: 2003-07-25

; PRIOR APPLICATION NUMBER: US/09/751,797
; PRIOR FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 7
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-10-627-273-7

Query Match 100.0%; Score 1119; DB 7; Length 1119;
Best Local Similarity 100.0%; Pred. No. 1.1e-223;
Matches 1119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 TAAACAGGCTCTCCTCTCACTTATCAACTGTGTGACACTTGTGCGATCTCTGATGGCTGTC 60
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Db 61 CTGCAGAAATCTATGAGTTTTCCTTATGGGACTTTGGCGCCAGCTGCTGCTTCTC 120
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Db 121 ATTGCCCTGTGGGCCAGGAGGCAAAATGCGCTGCCCTCAACCCCGGTGCAAGCTTGAG 180
Qy 181 GTGTCCAACTTCCAGCAGCGGTATCATCGTCAACCGCACCTTTTATGCTGGCCAAAGAGGCC 240
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Qy 361 CTGCTCCCCAGTCAGACAGGTTCCAGCCCTACATGACGAGGTGTGTTCTTCTGACC 420
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Db 421 AAATCTAGCAATCAGCTCAGCTCCTGTCTGTCACATCAGCGGTGACGACCAAGACATCCAGAAG 480
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Qy 721 ATGAAACCTGGCTCAGTTGAAAGAAAGTGAAGGCTAAAGCTCAATCATATTAGAAATTTTAC 780
Db 721 ATGAAACCTGGCTCAGTTGAAAGAAAGTGAAGGCTAAAGCTCAATCATATTAGAAATTTTAC 780
Qy 781 GACTTTGATTAACCAACAGAGATTCATGACAAATATTTATTTGTCACATGATGATCAACAGAA 840
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; FILE REFERENCE: GI5358 CIP
; CURRENT APPLICATION NUMBER: US/10/256,977
; CURRENT FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: US/10/084,298
; PRIOR FILING DATE: 2002-09-10
; PRIOR APPLICATION NUMBER: 60/270,823
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/281,353
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: 60/131,473
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/561,811
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1166
; TYPE: DNA
; ORGANISM: Murine
US-10-256-977-3

Query Match      99.0%; Score 1107.8; DB 6; Length 1166;
Best Local Similarity 99.4%; Pred. No. 2.5e-221;
Matches 1112; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 TAAACAGGCTCTCTCTCACTTATCAACTGTGTGACACTTGTGGCGAGTCTCTGATGGCTGTC 60
Db 24 TAAACAGGCTCTCTCTCAGTTATCAACTGTGTGACACTTGTGGCGAGTCTCTGATGGCTGTC 83

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Db 84 CTGCAGAAATCTATGAGTTTTTCCCTTATGGGAGTCTTGGCGCGCAGCTGCTCTCTC 143

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Db 144 ATTGCCCTGTGGGCCAGAGGCAAAATGCGTGCCTTAAACACCCGGTGCAAGCTTGAG 203

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Db 204 GTGTCCAACTTCCAGCAGCCGTACATGCTCAACCGCACTTTATGCTGGCCAAAGAGGCC 263

Qy 241 AGCTTTCAGATAAACAACAGAGCTCCGGCTCATCGGGAGAAACTGTTCGGAGGAGTC 300
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901 AGCTTATGTAACTTCAATTTCCATATCCAAATATTTTATATATGTAAGTTTATTTATATA 960
924 AGCTTATGTAACTTCAATTTCCATATCCAAATATTTTATATATGTAAGTTTATTTATATA 983

961 GTATACATTTTATTTATGTCAGTTTATTAATATGGAATTTATTTATAGAAAAATTTCTGC 1020
984 GTATACATTTTATTTATGTCAGTTTATTAATATGGAATTTATTTATAGAAAAATTTCTGC 1043

1021 TATTGATTTTATGTAAGGCAAAATATATTTATGCAATAAATATGCAAAACAAGATATC 1080
1044 TATTGATTTTATGTAAGGCAAAATATATTTATGCAATAAATATGCAAAACAAGATATC 1103

1081 TTAGGCTTTAATAAACAACATGGATATCATAAAAA 1119
1104 TTAGGCTTTAATAAACAACATGGATATCATAAAAA 1142

RESULT 5
US-10-873-972-3
; Sequence 3, Application US/10873972
; Publication No. US20050042220A1
; GENERAL INFORMATION:
; APPLICANT: Li, Jing
; APPLICANT: Tan, Xiang-Yang
; APPLICANT: Tomkinson, Kathleen N.
; APPLICANT: Pittman, Debra D.
; APPLICANT: Veldman, Geertruida M.
; APPLICANT: Fouser, Lynette
; TITLE OF INVENTION: Antibodies Against Interleukin-22 and Uses Therefor
; FILE REFERENCE: AM101524
; CURRENT APPLICATION NUMBER: US/10/873,972
; CURRENT FILING DATE: 2004-06-22
; PRIOR APPLICATION NUMBER: US 60/480,652
; PRIOR FILING DATE: 2003-06-23
; PRIOR APPLICATION NUMBER: US 10/084,298
; PRIOR FILING DATE: 2002-02-25
; PRIOR APPLICATION NUMBER: US 60/270,823
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: US 60/281,353
; PRIOR FILING DATE: 2001-04-03
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 1166
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-873-972-3

Query Match      99.0%; Score 1107.8; DB 8; Length 1166;
Best Local Similarity 99.4%; Pred. No. 2.5e-221;
Matches 1112; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

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Db 24 TAAACAGGCTCTCTCTCAGTTATCAACTGTGTGACACTTGTGGCGAGTCTCTGATGGCTGTC 83

Qy 61 CTGCAGAAATCTATGAGTTTTTCCCTTATGGGAGTCTTGGCGCGCAGCTGCTCTCTC 120
Db 84 CTGCAGAAATCTATGAGTTTTTCCCTTATGGGAGTCTTGGCGCGCAGCTGCTCTCTC 143

Qy 121 ATTGCCCTGTGGGCCAGAGGCAAAATGCGTGCCTTAAACACCCGGTGCAAGCTTGAG 180
Db 144 ATTGCCCTGTGGGCCAGAGGCAAAATGCGTGCCTTAAACACCCGGTGCAAGCTTGAG 203

Qy 181 GTGTCCAACTTCCAGCAGCCGTACATGCTCAACCGCACTTTATGCTGGCCAAAGAGGCC 240
Db 204 GTGTCCAACTTCCAGCAGCCGTACATGCTCAACCGCACTTTATGCTGGCCAAAGAGGCC 263

Qy 241 AGCTTTCAGATAAACAACAGAGCTCCGGCTCATCGGGAGAAACTGTTCGGAGGAGTC 300
Db 264 AGCTTTCAGATAAACAACAGAGTCCGGCTCATCGGGAGAAACTGTTCGGAGGAGTC 323

Qy 301 AGTGTAAAGATCAGTGCTTACTGATGAAGCAGGTGCTCAACTTACCCCTGGAGAGCGTT 360
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Qy 601 AGCTAGAAAAACGAAGAACTGCTCTCTGCTTCTTAAAAAGAAACAATAAGATCCCTGAA 660
Db 624 AGCTAGAAAAACGAAGAACTGCTCTCTGCTTCTTAAAAAGAAACAATAAGATCCCTGAA 683

Qy 661 TGGACTTTTTTACTAAAGAAAGTGAAGAGCTTAACGTCATCATCATTTAGAGATTTTCA 720
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Qy	181	GTGTCCAATTTCCAGCAGCCGTCATCATCGTCAACCGCACCTTTATGTCTGGCCAAAGAGGCC	240
Db	204	GTGTCCAATTTCCAGCAGCCCATCATCGTCAACCGCACCTTTATGTCTGGCCAAAGAGGCC	263
Qy	241	AGCCTTCAGATAACAACACAGAGCTCGGCTCATCGGGGAGAAATGTTTCCGAGGAGTC	300
Db	264	AGCCTTCAGATAACAACAACAGATGTCCGGCTCATCGGGGAGAAATGTTTCCGAGGAGTC	323
Qy	301	AGTGCTAAAGATCAGTGTACCTCATGAAGCAGGTGCTCAACTTTCACCCCTGGAAAGAGCTT	360
Db	324	AGTGCTAAAGATCAGTGTACCTCATGAAGCAGGTGCTCAACTTTCACCCCTGGAAAGAGCTT	383
Qy	361	CTGCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGTGGTACCTTTCTCTGACC	420
Db	384	CTGCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGTGGTGGCCCTTTCTCTGACC	443
Qy	421	AAACTCAGCAATCAGCTCAGCTCTGTGCATCATGAGCGTGCAGCACAGAAATCTCCAGAAG	480
Db	444	AAACTCAGCAATCAGCTCAGCTCTGTGCATCATGAGCGTGCAGCACAGAAATCTCCAGAAG	503
Qy	481	AATGTCCAGAGGCTGAAGGACAGTCGAAAAGCTTCGAGAGAGTGAGAGATCAAGCGC	540
Db	504	AATGTCCAGAGGCTGAAGGACAGTCGAAAAGCTTCGAGAGAGTGAGAGATCAAGCGC	563
Qy	541	ATTGGGAACTGGACCTGCTGTTTATCTCTCTGAGAAATCTTTCGCTCTGAGCGAGAGA	600
Db	564	ATTGGGAACTGGACCTGCTGTTTATCTCTCTGAGAAATCTTTCGCTCTGAGCGAGAGA	623
Qy	601	AGCTAGAAAAACGAAGAACTGCTCTCTCTGCTTTCTAAAAAGAACAAATAGATCCCTGAA	660
Db	624	AGCTAGAAAAACGAAGAACTGCTCTCTCTGCTTTCTAAAAAGAACAAATAGATCCCTGAA	683
Qy	661	TGGACTTTTTTTAATAAAGGAAAGTGAGAGAGCTAAAGTCCATCATATTAGAAGATTTTAC	720
Db	684	TGGACTTTTTTTAATAAAGGAAAGTGAGAGAGCTAAAGTCCATCATATTAGAAGATTTTAC	743
Qy	721	ATGAACCTCGCTCAGTGTGAAAAAGAAAATAGTCTCAAGTTGTCCATGAGACAGAGGTA	780
Db	744	ATGAACCTCGCTCAGTGTGAAAAAGAAAATAGTCTCAAGTTGTCCATGAGACAGAGGTA	803
Qy	781	GACTTGATAACCAAAAGATTCATTGACAATATTTTATTTGCTCACTGATGATACAACAGAA	840
Db	804	GACTTGATAACCAAAAGATTCATTGACAATATTTTATTTGCTCACTGATGATACAACAGAA	863
Qy	841	AAATAATGTACTTTTAAAAAATTTGTTTCAAAAGGAGTTACCTCTCATTTCTTTAGAAAAA	900
Db	864	AAATAATGTACTTTTAAAAAATTTGTTTCAAAAGGAGTTACCTCTCATTTCTTTAGAAAAA	923
Qy	901	AGCTTATGTAACTTTCATTTCCATATCCAAATATTTATATATATGTAAGTTTATTTATATAA	960
Db	924	AGCTTATGTAACTTTCATTTCCATAACCAATATTTTATATATGTAAGTTTATTTATATAA	983
Qy	961	GTATACATTTTATTTATGTGCTGTTTATATAATGGAATTTATTTATAGAAATATATCTGCG	1020
Db	984	GTATACATTTTATTTATGTGCTGTTTATATAATGGAATTTATTTATAGAAATATATCTGCG	1043
Qy	1021	TATTGATATTTAGTATAAGGCCAAATATATTTATGACAATTAACCTATTCGAAACAGATATC	1080
Db	1044	TATTGATATTTAGTATAAGGCCAAATATATTTATGACAATTAACCTATTCGAAACAGATATC	1103
Qy	1081	TTAGGCTTTTATAAACAATGGATATCATATAAAAAAAA	1119
Db	1104	TTAGGCTTTTATAAACAATGGATATCATATAAAAAAAA	1142

RESULT 6
US-11-157-387-3
; Sequence 3, Application US/11157387
; Publication No. US20050238648A1
; GENERAL INFORMATION:

Db	624	AGCTAGAAAACGAAGAACTGCTCTTCTGCTTTCTAAAAAGAAACAATAAGATCCCTGAA	683	
Qy	661	TGGACTTTTCTAAAGGAAAGTGAGAACTAAGCTACCTCCATCATATAGAAATTTTAC	720	
Db	684	TGGACTTTTCTAAAGGAAAGTGAGAACTAAGCTACCTCCATCATATATAGAAATTTTAC	743	
Qy	721	ATGAAACCTGCTCAGTTGAAAAGAAATAAGTCTCAAGTTGTCATGAGACCAAGAGTA	780	
Db	744	ATGAAACCTGCTCAGTTGAAAAGAAATAAGTCTCAAGTTGTCATGAGACCAAGAGTA	803	
Qy	781	GACTTTGATAACCAACAAAGATTCATTTGACAAATATTTTATGTCACTGATGATACACAGAA	840	
Db	804	GACTTTGATAACCAACAAAGATTCATTTGACAAATATTTTATGTCACTGATGATACACAGAA	863	
Qy	841	AAATAATGTACTTTAAAAAATGTTGAAAGGAGGTTACCTCTCATTTCCCTTTAGAAAAA	900	
Db	864	AAATAATGTACTTTAAAAAATGTTGAAAGGAGGTTACCTCTCATTTCCCTTTAGAAAAA	923	
Qy	901	AGCTTATGTACTTCCATATCCAAATATTTTATATATGTAAGTTTATTTATTATATAA	960	
Db	924	AGCTTATGTACTTCCATATCCAAATATTTTATATATGTAAGTTTATTTATTATATAA	983	
Qy	961	GTATACATTTTATTTATGTCTAGTTTATTAATATGGATTTATTTATAGAAACATTTATCTGC	1020	
Db	984	GTATACATTTTATTTATGTCTAGTTTATTAATATGGATTTATTTATAGAAACATTTATCTGC	1043	
Qy	1021	TATTGATATTTAGTATAGGCAATATATTTATGACATTAACATGTAAGAAACAGATATC	1080	
Db	1044	TATTGATATTTAGTATAGGCAATATATTTATGACATTAACATGTAAGAAACAGATATC	1103	
Qy	1081	TTAGGCTTTAATAACACATGATATCATAAAAA	1119	
Db	1104	TTAGGCTTTAATAACACATGATATCATAAAAA	1142	
RESULT 7				
US-09-751-797-9				
; Sequence 9, Application US/09751797				
; Patent No. US20010024652A1				
; GENERAL INFORMATION:				
; APPLICANT: Dumoutier, Laure				
; APPLICANT: Louhed, Jamila				
; APPLICANT: Renauld, Jean-Christophe				
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac				
; TITLE OF INVENTION: (TIFs) The Proteins Encoded, and Uses Thereof				
; FILE REFERENCE: LUD 5543.2				
; CURRENT APPLICATION NUMBER: US/09/751,797				
; CURRENT FILING DATE: 2000-12-29				
; PRIOR APPLICATION NUMBER: 09/419,568				
; PRIOR FILING DATE: 1999-10-18				
; PRIOR APPLICATION NUMBER: US09/178,973				
; PRIOR FILING DATE: 1998-10-26				
; NUMBER OF SEQ ID NOS: 29				
; SEQ ID NO 9				
; LENGTH: 1111				
; TYPE: DNA				
; ORGANISM: Mus musculus				
; FEATURE:				
US-09-751-797-9				
Query Match 93.6%; Score 1047.8; DB 3; Length 1111;				
Best Local Similarity 97.0%; Pred. No. 8.6e-209;				
Matches 1078; Conservative 0; Mismatches 32; Indels 1; Gaps 1;				
Qy	3	AACGGCTCTCTCTCACTTATCAACTCTTGACACTCTGTGGGATCTCTGATGGCTGTGCT	62	
Db	1	AACGGCTCTCTCTCACTTATCAACTCTTGACACTCTGTGGGATCTGTGATGGCTGTGCT	60	
Qy	63	GCAGAAATCTATGAGTTTTTCCCTTATGGGACATTTGGCCGCGAGCTGCCTTCTCAT	122	
Db	61	GCAGAAATCTATGAGTTTTTCCCTTATGGGACATTTGGCCGCGAGCTGCCTTCTCAT	120	

RESULT 8
US-10-627-273-9
; Sequence 9, Application US/10627273
; Publication No. US20040110189A1

Qy	123	TGCCCTGTGGGCCCCAGAGGCAAAATGCGTCCCGTCAACACCCGGTGCAAGCTTGAGGT	182	
Db	121	TGCCCTGTGGGCCCCAGAGGCAAAATGCGTCCCGTCAACACCCGGTGCAAGCTTGAGGT	180	
Qy	183	GTCAAACTTCAGAGCCGTACATGTCACACCCGACCTTTATGCTGCGCAAGGAGCCAG	242	
Db	181	GTCAAACTTCAGAGCCGTACATGTCACACCCGACCTTTATGCTGCGCAAGGAGCCAG	240	
Qy	243	CCTTGCGAGATAACAAACACAGACGTCGGGCTCATCGGGGAGAACTGTTCCGAGAGTCA	302	
Db	241	CCTTGCGAGATAACAAACACAGACGTCGGGCTCATCGGGGAGAACTGTTCCGAGAGTCA	300	
Qy	303	TGCTAAAGATCAGTGTCTACCTGATGAAGCAGGTGCTCAACTTCCCTCGAAGACGTTCT	362	
Db	301	TGCTAAAGATCAGTGTCTACCTGATGAAGCAGGTGCTCAACTTCCCTCGAAGACATTTCT	360	
Qy	363	GCTCCCCCAGTCAGAGTTCAGGCCCTACATGTCAGGAGGTGCTACTCTTCTTGACAA	422	
Db	361	GCTCCCCCAGTCAGAGTTCAGGCCCTACATGTCAGGAGGTGCTACTCTTCTTGACAA	420	
Qy	423	ACTCAGCAATCAGCTCAGCTCCTGTGCATCAGCGGTGACGACCCAGAAACATCCAGAAGAA	482	
Db	421	ACTCAGCAATCAGCTCAGCTCCTGTGCATCAGGTGTCAGCAACAGAAACATCCAGAAGAA	480	
Qy	483	TGTCAGAAAGCTGAAGAGGACAGTCGAAAAAGCTTGGAGAGAGTGGAGAGATCAAGCGAT	542	
Db	481	TGTCAGAAAGCTGAAGAGGACAGTCGAAAAAGCTTGGAGAGAGTGGAGAGATCAAGCGAT	540	
Qy	543	TGGGAACTCGACCTGCTGTTTATGCTCTGAGAAATGCTTGGCTGAGGAGAGAGAG	602	
Db	541	CGGGAACTCGACCTGCTGTTTATGCTCTGAGAAATGCTTGGCTGAGGAGAGAGAG	600	
Qy	603	CTAGAAAAACGAAAGCTGCTCTTCTGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT	662	
Db	601	CTAGAAAAACGAAAGCTGCTCTTCTGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT	660	
Qy	663	GACTTTTTTACTTAAAGGAAAGTGAGAAAGCTAAACGTCATCATCAATTAAGAAATTCACAT	722	
Db	661	GACTTTTTTACTTAAAGGAAAGTGAGAAAGCTAAACGTCATCATCAATTAAGAAATTCACAT	720	
Qy	723	GAAACCTGGCTCAGTTGAAAAAGAAATAGTGTCAAGTTGTCATGACAGCAGAGGTAGA	782	
Db	721	GAAACCTGGCTCAGTTGAAAAAGAAATAGTGTCAAGTTGTCATGACAGCAGAGGTAGA	780	
Qy	783	CTTGATAACCAAGAGTTCATTTGACAAATATTTTATGTCATGATGATCAACAGAAAA	842	
Db	781	CTTGATAACCAAGAGTTCATTTGACAAATATTTTATGTCATGATGATGCAACAGAAAA	840	
Qy	843	ATATATGTACTTTTAAAAAATTTGTTTGAAGGAGGTACCTCTCATTTCTTTTAAAAAAG	902	
Db	841	AGTATGTACTTTTAAAAAATTTGTTTGAAGGAGGTACCTCTCATTTCTTTTAAAAAAG	900	
Qy	903	CTTATGTAACCTTCACTTTCCATATCCAAATATTTTATATATGTAAGTTTATTTATTAAGT	962	
Db	901	CCTATGTAACCTTCACTTTCCATATCCAAATATTTTATATATGTAAGTTTATTTATTAAGT	960	
Qy	963	ATACATTTTATTTATGTCAGTTTATTAATGGAATTTATTTATAGAAACATTTATCTGCTA	1022	
Db	961	ATACATTTTATTTATGTCAGTTTATTAATGGAATTTATTTATAGAAACATTTATCTGATG	1020	
Qy	1023	TTGATATTTT-AGTATAAGGCAAAATAATATTTTATGACAAATACTATGGAACAAAGATCT	1081	
Db	1021	TTGATATTTTATGATATTAAGCAAAATAATATTTATGATTAATACTATGAAACAAAGATCT	1080	
Qy	1082	TAGGCTTTTATAAACAATGATATCAATAA	1112	
Db	1081	TAGGCTTTTATAAACAATGATATCAATAA	1111	

GENERAL INFORMATION:	
APPLICANT: Dumoutier, Laure	
APPLICANT: Louhed, Jamila	
APPLICANT: Renauld, Jean-Christophe	
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Protein	
TITLE OF INVENTION: (TIPs) The Proteins Encoded, and Uses Thereof	
FILE REFERENCE: LUD 5543.2	
CURRENT FILING DATE: 2003-07-25	
PRIORITY FILING DATE: 2000-12-29	
PRIORITY FILING DATE: 1999-10-18	
PRIORITY FILING DATE: 1998-10-26	
NUMBER OF SEQ ID NOS: 29	
SEQ ID NO 9	
LENGTH: 1111	
TYPE: DNA	
ORGANISM: Mus musculus	
FEATURE:	
US-10-627-273-9	
Query Match	
Best Local Similarity 97.0%; Score 1047.8; DB 7; Length 1111;	
Matches 1078; Conservative 0; Mismatches 32; Indels 1; Gaps 1;	
QY	3 AACAGGCTCTCTCTCACTTATCAACTTGTGACACTTGTGCGATCTCTGATGGCTGTCCT 62
DB	1 AACAGGCTCTCTCTCACTTATCAACTTGTGACACTTGTGCGATCTCTGATGGCTGTCCT 60
QY	63 GCAGAAATCTATGAGTATTTTCCCTATGAGGACTTTGGCCGCGAGCTGCTTCTCAT 122
DB	61 GCAGAAATCTATGAGTATTTTCCCTATGAGGACTTTGGCCGCGAGCTGCTTCTCAT 120
QY	123 TGGCTGTGGCCGAGAGGCAATGCGCTGCGCTCAACACCGGCTGCAAGCTTGAGGT 182
DB	121 TGGCTGTGGCCGAGAGGCAATGCGCTGCGCTCAACACCGGCTGCAAGCTTGAGGT 180
QY	183 GTCCAACTTCCAGCAGCGTACATCGTCAACCGCCTTTATGCTGCGCAAGAGGCGAG 242
DB	181 GTCCAACTTCCAGCAGCGTACATCGTCAACCGCCTTTATGCTGCGCAAGAGGCGAG 240
QY	243 CCTTGACAGATAACAAACACAGACGCTCGGCTCATCGGGGAGAACTGTTCCGAGAGTCAG 302
DB	241 CCTTGACAGATAACAAACACAGACGCTCGGCTCATCGGGGAGAACTGTTCCGAGAGTCAG 300
QY	303 TGTAAAGATCAGTGTCTACCTGATGAAGAGAGGTGCTCACTTCACTCCCTGGAAGAGTCT 362
DB	301 TGTAAAGATCAGTGTCTACCTGATGAAGAGAGGTGCTCACTTCACTCCCTGGAAGAGTCT 360
QY	363 GCTCCCCCTCAGACAGGTTCCAGCCCTACATGCGAGGAGTGTACTTTCTGACCAA 422
DB	361 GCTCCCCCTCAGACAGGTTCCAGCCCTACATGCGAGGAGTGTACTTTCTGACCAA 420
QY	423 ACTCAGCAATCAGCTCAGCTCCTGTCTACATCAGCGGTGACGACAGCAATCCAGAGAA 482
DB	421 ACTCAGCAATCAGCTCAGCTCCTGTCTACATCAGTGTGACGACAGCAATCCAGAGAA 480
QY	483 TGTGAGAGGCTGAGAGAGACAGTGAAGAAAGCTTGGAGAGAGTGGAGAGATCAAGGCGAT 542
DB	481 TGTGAGAGGCTGAGAGAGACAGTGAAGAAAGCTTGGAGAGAGTGGAGAGATCAAGGCGAT 540
QY	543 TGGGAACTGCACTGCTGTTATGCTCTGAGAAATGCTTGGCTGCGAGCGAGAGAG 602
DB	541 CGGGAACTGCACTGCTGTTATGCTCTGAGAAATGCTTGGCTGCGAGCGAGAGAG 600
QY	603 CTAGAAACGAGAACTGCTCTCTGCTCTTCTTAAAGAAACAAATGAAGATCCCTGAATG 662
DB	601 CTAGAAACGAGAACTGCTCTCTGCTCTTCTTAAAGAAACAAATGAAGATCCCTGAATG 660
QY	663 GACTTTTTTACTAAGGAAAGTGAAGAGCTTAAAGCTTCAATCATATTAGAGATTTTCAAT 722

Db	661 GACTTTTTTACTAAGGAAAGTGAAGAGCTTAAAGCTTCAATCATATTAGAGATTTTCAAT 720
QY	723 GAAACCTGGCTCAGTTTGAAGAAAGAAATAGTGTCAAGTTTGTCCATGAGACCCAGAGGTAGA 782
Db	721 GAAACCTGGCTCAGTTTGAAGAGAAATAGTGTCAAGTTTGTCCATGAGACCCAGAGGTAGA 780
QY	783 CTTGATAACCAAGAAATTCATTGACAAATATTTTATTTGTCACCTGATGATCAACAGAAA 842
Db	781 CTTGATAACCAAGAAATTCATTGACAAATATTTTATTTGTCACCTGATGATCAACAGAAA 840
QY	843 ATAATGTACTTTTAAAGAAATTTGTTGAAAGGAGGTACCTCTCTCTCTTTAGAAAAAAG 902
Db	841 AGTATGTACTTTTAAAGAAATTTGTTGAAAGGAGGTACCTCTCTCTCTTTAGAAAAAAG 900
QY	903 CTTATGTAACTTCAATTTCCATATFCCAAATATTTTATATATGTAAGTTTATTTATTAAGT 962
Db	901 CCTATGTAACTTCAATTTCCATATFCCAAATATTTTATATATGTAAGTTTATTTATTAAGT 960
QY	963 ATACATTTTATTTATGTCAGTTTATTAATATGAGTTTATTTATAGAAAAATTTATCTGCTA 1022
Db	961 ATACATTTTATTTATGTCAGTTTATTAATATGAGTTTATTTATAGAAAAATTTATCTGATG 1020
QY	1023 TTGATATTT-AGTATAGGCAATATATTTTATGACAAATAACTATGAAAAACAAGATATCT 1081
Db	1021 TTGATATTTGAGTATTAAGCAAAATATATTTTATGATAATAACTATAGAAAAACAAGATATCT 1080
QY	1082 TAGGCTTTTAAATAACACATGGATATCATAAA 1112
Db	1081 TAGGCTTTTAAATAACACATGAATATCATAAA 1111

RESULT 9

US-10-090-365-40

Sequence 40, Application US/10090365

Publication No. US20030077706A1

GENERAL INFORMATION:

APPLICANT: Presnell, Scott R.

APPLICANT: Xu, Wenfeng

APPLICANT: Kindsvogel, Wayne

APPLICANT: Chen, Zhi

TITLE OF INVENTION: Mouse Cytokine Receptor

FILE REFERENCE: 01-08

CURRENT APPLICATION NUMBER: US/10/090,365

CURRENT FILING DATE: 2002-03-04

PRIOR APPLICATION NUMBER: US 60/273,035

PRIOR FILING DATE: 2001-03-02

PRIOR APPLICATION NUMBER: US 60/279,232

PRIOR FILING DATE: 2001-03-27

NUMBER OF SEQ ID NOS: 49

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 40

LENGTH: 1050

TYPE: DNA

ORGANISM: Mus musculus

FEATURE:

NAME/KEY: CDS

LOCATION: (50)...(589)

US-10-090-365-40

Query Match

Best Local Similarity 88.8%; Score 993.2; DB 5; Length 1050;

Matches 1021; Conservative 0; Mismatches 28; Indels 1; Gaps 1;

QY 3 AACAGGCTCTCTCTCACTTATCAACTTGTGACACTTGTGCGATCTCTGATGGCTGTCCT 62 | || DB | 1 AACAGGCTCTCTCTCACTTATCAACTTGTGACACTTGTGCGATCTCTGATGGCTGTCCT 60 | |
QY	63 GCAGAAATCTATGAGTATTTTCCCTATGAGGACTTTGGCCGCGAGCTGCTTCTCAT 122	
DB	61 GCAGAAATCTATGAGTATTTTCCCTATGAGGACTTTGGCCGCGAGCTGCTTCTCAT 120	
QY	123 TGGCTGTGGCCGAGAGGCAATGCGCTGCGCTCAACACCGGCTGCAAGCTTGAGGT 182	
DB	121 TGGCTGTGGCCGAGAGGCAATGCGCTGCGCTCAACACCGGCTGCAAGCTTGAGGT 180	
QY	183 GTCCAACTTCCAGCAGCGTACATCGTCAACCGCCTTTATGCTGCGCAAGAGGCGAG 242	
DB	181 GTCCAACTTCCAGCAGCGTACATCGTCAACCGCCTTTATGCTGCGCAAGAGGCGAG 240	
QY	243 CCTTGACAGATAACAAACACAGACGCTCGGCTCATCGGGGAGAACTGTTCCGAGAGTCAG 302	
DB	241 CCTTGACAGATAACAAACACAGACGCTCGGCTCATCGGGGAGAACTGTTCCGAGAGTCAG 300	
QY	303 TGTAAAGATCAGTGTCTACCTGATGAAGAGAGGTGCTCACTTCACTCCCTGGAAGAGTCT 362	
DB	301 TGTAAAGATCAGTGTCTACCTGATGAAGAGAGGTGCTCACTTCACTCCCTGGAAGAGTCT 360	
QY	363 GCTCCCCCTCAGACAGGTTCCAGCCCTACATGCGAGGAGTGTACTTTCTGACCAA 422	
DB	361 GCTCCCCCTCAGACAGGTTCCAGCCCTACATGCGAGGAGTGTACTTTCTGACCAA 420	
QY	423 ACTCAGCAATCAGCTCAGCTCCTGTCTACATCAGCGGTGACGACAGCAATCCAGAGAA 482	
DB	421 ACTCAGCAATCAGCTCAGCTCCTGTCTACATCAGTGTGACGACAGCAATCCAGAGAA 480	
QY	483 TGTGAGAGGCTGAGAGAGACAGTGAAGAAAGCTTGGAGAGAGTGGAGAGATCAAGGCGAT 542	
DB	481 TGTGAGAGGCTGAGAGAGACAGTGAAGAAAGCTTGGAGAGAGTGGAGAGATCAAGGCGAT 540	
QY	543 TGGGAACTGCACTGCTGTTATGCTCTGAGAAATGCTTGGCTGCGAGCGAGAGAG 602	
DB	541 CGGGAACTGCACTGCTGTTATGCTCTGAGAAATGCTTGGCTGCGAGCGAGAGAG 600	
QY	603 CTAGAAACGAGAACTGCTCTCTGCTCTTCTTAAAGAAACAAATGAAGATCCCTGAATG 662	
DB	601 CTAGAAACGAGAACTGCTCTCTGCTCTTCTTAAAGAAACAAATGAAGATCCCTGAATG 660	
QY	663 GACTTTTTTACTAAGGAAAGTGAAGAGCTTAAAGCTTCAATCATATTAGAGATTTTCAAT 182	

Db 121 TGCCCTGTGGCCGCCAGGCGAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT 180
Qy 183 GTCCAACTTCAGCAGCGGTACATCGTCAACCGCACCTTTATGTGCGCAAGGGCCAG 242
Db 181 GTCCAACTTCAGCAGCGGTACATCGTCAACCGCACCTTTATGTGCGCAAGGGCCAG 240
Qy 243 CCTTGCAGATAACAACACAGACGTCGGCTCATCGGGAGAAAAGCTGTTCCGAGAGTCA 302
Db 241 CCTTGCAGATAACAACACAGACGTCGGCTCATCGGGAGAAAAGCTGTTCCGAGAGTCA 300
Qy 303 TGTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTTGAAGACGTTCT 362
Db 301 TGTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTTGAAGACATTC 360
Qy 363 GCTCCCCAGTCACAGAGTTCAGGCTTCAGGCTCATCATCGAGAGGTGCTACCTTCCGACAA 422
Db 361 GCTCCCCAGTCACAGAGTTCAGGCTTCAGGCTCATCATCGAGAGGTGCTTCTTCCGACAA 420
Qy 423 ACTCAGCAATCAGTCTCAGTCTCTGTCAATCAGCGGTGACGACCAAGAACATCCAGAAAGAA 482
Db 421 ACTCAGCAATCAGTCTCAGTCTCTGTCAATCAGTGGTGACGACCAAGAACATCCAGAAAGAA 480
Qy 483 TGTCAAGGCTGAAGGAGACAGTGAAGAAAGCTTTGAGAGAGTGGAGAGATCAAGGCGAT 542
Db 481 TGTCAAGGCTGAAGGAGACAGTGAAGAAAGCTTTGAGAGAGCGGAGAGATCAAGGCGAT 540
Qy 543 TGGGGAACCTGACCTGCTGTTTATGTCTCTGAGAAATGCTTGGCTCTGAGCGGAGAGAG 602
Db 541 CGGGGAACCTGACCTGCTGTTTATGTCTCTGAGAAATGCTTGGCTCTGAGCGGAGAGAG 600
Qy 603 CTAGAAACGAGAACTGCTCTCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 662
Db 601 CTAGAAACGAGAACTGCTCTCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 660
Qy 663 GACTTTTTTACTAAAGGAAAGTGAGAGCTGAAGCTCAATCATCATTTAGAGATTTCAAT 722
Db 661 GACTTTTTTACTAAAGGAAAGTGAGAGCTGAAGCTCAATCATCATTTAGAGATTTCAAT 720
Qy 723 GAAACCTGGCTCAGTTGAAAAGAAAATAGTGTCAAGTTGTCATGATGACGACGAGAGTAGA 782
Db 721 GAAACCTGGCTCAGTTGAAAAGAAAATAGTGTCAAGTTGTCATGATGACGACGAGAGTAGA 780
Qy 783 CTGATACCAACCAAGATTCATTCACATATTTTATGTCTCACTGATGATGATGATGATGATGAT 842
Db 781 CTGATACCAACCAAGATTCATTCACATATTTTATGTCTCACTGATGATGATGATGATGATGAT 840
Qy 843 ATATATGACTTTAAAAATTTGTTTGAAGGAGGTACCTCTCATTTCTTTAGAAAAAAG 902
Db 841 AGTATGTAATTTAAAAATTTGTTTGAAGGAGGTACCTCTCATTTCTTGAAGAAAAG 900
Qy 903 CTTATGTAATTTCAATTTCCATATCCATATTTTATATATATATATATATATATATATATATAT 962
Db 901 CCTATGTAATTTCAATTTCCATATCCATATTTTATATATATATATATATATATATATATATAT 960
Qy 963 ATACATTTTATTTATGTCAGTTTAT 1022
Db 961 ATACATTTTATTTATGTCAGTTTAT 1020
Qy 1023 TTGATATTTT-AGTATAAGGCAATAATATT 1051
Db 1021 TTGATATTTGATATATAAGCAATAATATT 1050

RESULT 10

US-10-104-919-42
; Sequence 42, Application US/10104919
; Publication No. US20030099608A1
; GENERAL INFORMATION:
; APPLICANT: Presnell, Scott R.
; APPLICANT: Xu, Wenfeng
; APPLICANT: Kindsvogel, Wayne
; APPLICANT: Chen, Zhi
; APPLICANT: Hughes, Steven D.

; TITLE OF INVENTION: Human Cytokine Receptor
; FILE REFERENCE: 01-12
; CURRENT APPLICATION NUMBER: US/10/104,919
; CURRENT FILING DATE: 2002-03-23
; PRIOR APPLICATION NUMBER: US 60/279,222
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: Fast-Seq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 1050
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (5)...(589)
US-10-104-919-42

Query Match 88.8%; Score 993.2; DB 5; Length 1050;
Best Local Similarity 97.2%; Pred. No. 2.2e-197;
Matches 1021; Conservative 0; Mismatches 28; Indels 1; Gaps 1;

Qy 3 AACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTTGTGGATCTCTGATGGCTGTCT 62
Db 1 AACAGGCTCTCCTCTCACTTATCAACTTTTGCACACTTTGTGCGATCGGTGATGGCTGTCT 60
Qy 63 GCAGAAATCTATGAGTTTTCCTTATGGGACCTTTTGGCCGCCAGCTGCTGCTTCTCAT 122
Db 61 GCAGAAATCTATGAGTTTTCCTTATGGGACCTTTTGGCCGCCAGCTGCTGCTTCTCAT 120
Qy 123 TGGCCTGTGGGCCCGCAGGAGCAATGCGTGCCTGCAACACCCGGTGCAAGCTTGAGGT 182
Db 121 TGGCCTGTGGGCCCGCAGGAGCAATGCGTGCCTCAACACCCGGTGCAAGCTTGAGGT 180
Qy 183 GTCCAACTTCAGCAGCGGTACATCGTCAACCGCACCTTTATGTCGCGCAAGGGCCAG 242
Db 181 GTCCAACTTCAGCAGCGGTACATCGTCAACCGCACCTTTATGTCGCGCAAGGGCCAG 240
Qy 243 CCTTGCAGATAACAACACAGACGTCGGCTCATCGGGGAGAACTGTTCCGAGAGTCA 302
Db 241 CCTTGCAGATAACAACACAGACGTCGGCTCATCGGGGAGAACTGTTCCGAGAGTCA 300
Qy 303 TGTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTTGAAGACGTTCT 362
Db 301 TGTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTTGAAGACATTC 360
Qy 363 GCTCCCCAGTCACAGAGTTCAGGCTTCAGGCTCATCATCGAGAGGTGCTTCTTCCGACAA 422
Db 361 GCTCCCCAGTCACAGAGTTCAGGCTTCAGGCTTCATGCGAGAGGTGCTTCTTCCGACAA 420
Qy 423 ACTCAGCAATCAGTCTCAGTCTCTGTCAATCAGCGGTGACGACCAAGAACATCCAGAAAGAA 482
Db 421 ACTCAGCAATCAGTCTCAGTCTCTGTCAATCAGTGGTGACGACCAAGAACATCCAGAAAGAA 480
Qy 483 TGTCAAGGCTGAAGGAGACAGTGAAGAAAGCTTTGAGAGAGTGGAGAGATCAAGGCGAT 542
Db 481 TGTCAAGGCTGAAGGAGACAGTGAAGAAAGCTTTGAGAGAGCGGAGAGATCAAGGCGAT 540
Qy 543 TGGGGAACCTGACCTGCTGTTTATGTCTCTGAGAAATGCTTGGCTCTGAGCGGAGAGAG 602
Db 541 CGGGGAACCTGACCTGCTGTTTATGTCTCTGAGAAATGCTTGGCTCTGAGCGGAGAGAG 600
Qy 603 CTAGAAACGAGAACTGCTCTCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 662
Db 601 CTAGAAACGAGAACTGCTCTCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 660
Qy 663 GACTTTTTTACTAAAGGAAAGTGAGAGCTGAAGCTCAATCATCATTTAGAGATTTCAAT 722
Db 661 GACTTTTTTACTAAAGGAAAGTGAGAGCTGAAGCTCAATCATCATTTAGAGATTTCAAT 720
Qy 723 GAAACCTGGCTCAGTTGAAAAGAAAATAGTGTCAAGTTGTCATGATGACGACGAGAGTAGA 782
Db 721 GAAACCTGGCTCAGTTGAAAAGAAAATAGTGTCAAGTTGTCATGATGACGACGAGAGTAGA 780

Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	1119	100.0	1119	7	US-11-177-987-7	Sequence 7, Appli
2	1047.8	93.6	1111	7	US-11-177-987-9	Sequence 9, Appli
3	601.4	53.7	7445	7	US-11-177-987-8	Sequence 8, Appli
4	555.2	49.6	5935	7	US-11-177-987-42	Sequence 42, Appl
5	524.8	46.9	1152	7	US-11-102-240-153	Sequence 153, Appl
6	409.2	36.6	690	7	US-11-177-987-25	Sequence 25, Appl
7	223.6	20.0	418	7	US-11-177-987-18	Sequence 18, Appl
8	126	11.3	4797	7	US-11-177-987-26	Sequence 26, Appl
9	54.6	4.9	26772	6	US-10-995-561-13313	Sequence 13313, A
10	54.6	4.9	54946	6	US-10-995-561-13479	Sequence 13479, A
11	54	4.8	171486	7	US-11-121-086-105	Sequence 105, Appl
12	53.8	4.8	190276	6	US-10-661-966-1	Sequence 1, Appli
13	53.6	4.8	49979	6	US-10-995-561-13443	Sequence 13443, A
14	53.4	4.8	47444	6	US-10-995-561-13354	Sequence 13354, A
15	52.8	4.7	173602	7	US-11-121-086-25	Sequence 25, Appl
16	52.6	4.7	1819	6	US-10-750-185-29496	Sequence 29496, A
17	52.4	4.7	184868	7	US-11-121-086-88	Sequence 88, Appl
18	52.2	4.7	201990	6	US-10-995-561-13303	Sequence 13303, A
19	51.8	4.6	173602	7	US-11-121-086-25	Sequence 25, Appl
20	51.2	4.6	161874	7	US-11-121-086-75	Sequence 75, Appl
21	51	4.6	119036	6	US-10-995-561-13314	Sequence 13314, A
22	51	4.6	151169	7	US-11-121-086-38	Sequence 38, Appl
23	50.6	4.5	151169	7	US-11-121-086-38	Sequence 38, Appl

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Db 181 GTGTCCAACTTCCAGCAGCGGTACATCGTCAACCGCACCTTTATGTGCGCAAGGAGGCC 240
Qy 241 AGCCTTCAGATACACACAGAGCTCGGCTCATCGGGAGAACTGTTCCGAGGAGTC 300
Db 241 AGCCTTCAGATACACACAGAGCTCGGCTCATCGGGAGAACTGTTCCGAGGAGTC 300
Qy 301 AGTGTAAAGATCAGTGTCTACTCATGAAGCAGGTGTCAACTTCACCCCTGGAAGAGCTT 360
Db 301 AGTGTAAAGATCAGTGTCTACTCATGAAGCAGGTGTCAACTTCACCCCTGGAAGAGCTT 360
Qy 361 CTGCTCCCCCAGTCAGACAGGTTCACGCCCTTACATGACAGAGGTGTACCTTTCTCAACC 420
Db 361 CTGCTCCCCCAGTCAGACAGGTTCACGCCCTTACATGACAGAGGTGTACCTTTCTCAACC 420
Qy 421 AAATCAGCAATCAGCTCAGCTCTGTCTCAATCAGCGGTGACGACCAAGATCCAGAAG 480
Db 421 AAATCAGCAATCAGCTCAGCTCTGTCTCAATCAGCGGTGACGACCAAGATCCAGAAG 480
Qy 481 AATGTCAAGAGGCTGAAGGAGACAGTGAAGAGCTTGGAGAGCTGGAGAGATCAAGGCG 540
Db 481 AATGTCAAGAGGCTGAAGGAGACAGTGAAGAGCTTGGAGAGCTGGAGAGATCAAGGCG 540
Qy 541 ATTGGGAACTGGACCTGCTGCTTTATGTCTCTGAGAAATGCTTGGCTCTGAGCGAGAAGA 600
Db 541 ATTGGGAACTGGACCTGCTGCTTTATGTCTCTGAGAAATGCTTGGCTCTGAGCGAGAAGA 600
Qy 601 AGCTAGAAAACGAAGAACTGCTCTTCTGCTTCTTAAAGAAACATTAAGATCCCTGAA 660
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Qy 661 TGGACTTTTTTACTAAAGGAAGTGAGAGCTAAAGCTCATCATCATTTAGAAAGATTTTAC 720
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Qy 721 ATGAAACCTGGCTCAGTTGAAAAAGAAATAGTGTCAAGTTGTCCATGAGACCAAGGTA 780
Db 721 ATGAAACCTGGCTCAGTTGAAAAAGAAATAGTGTCAAGTTGTCCATGAGACCAAGGTA 780
Qy 781 GACTGTATACCAAGATTCATGTACATATTTATTTATTTATTTATTTATTTATTTATTTAT 840
Db 781 GACTGTATACCAAGATTCATTTGACAAATATTTATTTATTTATTTATTTATTTATTTAT 840
Qy 841 AAATAAGTACTTTTAAAGAAATTTTGAAGAGGTTTACCTCTCATCTCTTTAGAAAAAA 900
Db 841 AAATAAGTACTTTTAAAGAAATTTTGAAGAGGTTTACCTCTCATCTCTTTAGAAAAAA 900
Qy 901 AGCTTATGTAACCTTCAATTTCCATATCCAAATATTTATATATATATATATATATATATA 960
Db 901 AGCTTATGTAACCTTCAATTTCCATATCCAAATATTTATATATATATATATATATATA 960
Qy 961 GTATACATTTTATTTATGTCTAGTTTATTAATATGATTTTATTTATTTATTTATTTATTC 1020
Db 961 GTATACATTTTATTTATGTCTAGTTTATTAATATGATTTTATTTATTTATTTATTTATTC 1020
Qy 1021 TATTGATATTTAGTATAGGCAATAATATTTATGACATAACTATGAAAAACAGATATC 1080
Db 1021 TATTGATATTTAGTATAGGCAATAATATTTATGACATAACTATGAAAAACAGATATC 1080
Qy 1081 TTAGGCTTTAATAACACATGGATATCATATAAAAAAAA 1119
Db 1081 TTAGGCTTTAATAACACATGGATATCATATAAAAAAAA 1119
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RESULT 2
US-11-177-987-9
; Sequence 9, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
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; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; US-11-177-987-9

Query Match          93.6%; Score 1047.8; DB 7; Length 1111;
Best Local Similarity 97.0%; Pred. No. 2.5e-229;
Matches 1078; Conservative 0; Mismatches 32; Indels 1; Gaps 1;

Qy 3 AACAGGCTCTCTCTCTCACTTATCAACTGTGTGACACTTGTGGGATCTCTGATGGCTGTCT 62
Db 1 AACAGGCTCTCTCTCTCACTTATCAACTTTTGACACTTTGTGCGATCGGTGATGGCTGTCT 60
Qy 63 GCAGAAATCTATGAGTTTTCCTTATGGGACTTTTGGCCGCGCAGCTGCTTCTCAT 122
Db 61 GCAGAAATCTATGAGTTTTCCTTATGGGACTTTTGGCCGCGCAGCTGCTTCTCAT 120
Qy 123 TGCCTCTGGGCCCAGCAGGCAATGCGCTGCCGTCACACACCCGGTGCAGCTTGAGGT 182
Db 121 TGCCTCTGGGCCCAGCAGGCAATGCGCTGCCCTCAACACCCGGTGCAGCTTGAGGT 180
Qy 183 GTCCAACTTCAGCAGCGGTACATCGTCAACCGCACCTTTATGTGGCAGAGAGGCCAG 242
Db 181 GTCCAACTTCAGCAGCGGTACATCGTCAACCGCACCTTTATGTGGCAGAGAGGCCAG 240
Qy 243 CCTTGCAGATAACACACAGACGTCGCGCTCATCGGGAGAGAACTGTTCGAGAGATCAG 302
Db 241 CCTTGCAGATAACACACAGACGTCGCGCTCATCGGGAGAGAACTGTTCGAGAGATCAG 300
Qy 303 TGCTAAAGATCAGTGTCTACCTGTAGTGAAGCAGGTGCTCAACTTCCCTTGGAGAGCTTCT 362
Db 301 TGCTAAAGATCAGTGTCTACCTGTAGTGAAGCAGGTGCTCAACTTCCCTTGGAGAGATCT 360
Qy 363 GCTCCCCCAGTCAGACAGGTTTCAGCCCTCATCGAGAGAGGTGTACTCTTCTCGACCAA 422
Db 361 GCTCCCCCAGTCAGACAGGTTTCGCGCCCTACATGACGAGGTTGGTGTCTTCTCGACCAA 420
Qy 423 ACTCAGCAATCAGCTCAGCTCTCTCATCATCAGCGGTGACGACCAAGACATCCAGAAGAA 482
Db 421 ACTCAGCAATCAGCTCAGCTCTCTCATCATCAGTGGTGAACGACCAAGAACTCCAGAAGAA 480
Qy 483 TGTCAAGAGGCTGAAGGAGACAGTGAAGAAAGCTTTGGAGAGAGTGGAGAGATCAAGGCGAT 542
Db 481 TGTCAAGAGGCTGAAGGAGACAGTGAAGAAAGCTTTGGAGAGAGTGGAGAGATCAAGGCGAT 540
Qy 543 TGGGGAATCGGACCTGCTGTTTATGTCTCTGAGAAATGCTTTGCGTCTGAGCGAGAGAG 602
Db 541 CGGGGAATCGGACCTGCTGTTTATGTCTCTGAGAAATGCTTTGCGTCTGAGCGAGAGAG 600
Qy 603 CTAGAAAACGAGAACTGCTCTCTTCTTCTTAAAGAAACATATAGATCCCTCGAATG 662
Db 601 CTAGAAAACGAGAACTGCTCTCTTCTTCTTAAAGAAACATATAGATCCCTCGAATG 660
Qy 663 GACTTTTTTACTTAAAGGAAAGTGAAGAGCTTAACGTCATCATCATTTAGAAGATTTTACAT 722
Db 661 GACTTTTTTACTTAAAGGAAAGTGAAGAGCTTAACGTCATCATCATTTAGAAGATTTTACAT 720
Qy 723 GAAACCTGGCTCAGTGTGAAAAAGAAAAATAGTGTGTCAGTTGTCATGACACAGAGGTAGA 782
Db 721 GAAACCTGGCTCAGTGTGAAAAAGAAAAATAGTGTGTCAGTTGTCATGACACAGAGGTAGA 780
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Qy 690 GCTAACGTCATCATATTAGAAATTTACATGAACCTGGCTCAGTTGAAAAGAAA 749
Db 5401 GCTAACGTCACCAATCATTTAGAAATTTACATGAACCTGGCTCAGTTGAAAAGAAA 5460
Qy 750 TAGTGTCAAGTTGTCCATGAGACAGAGGTAGACTTGATAACCAAAAGATTTCATTGACA 809
Db 5461 TAGTGTCAAGTTGTCCATGAGACAGAGGTAGACTTGATAACCAAAAGATTTCATTGACA 5520
Qy 810 ATATTTTATTGCTACTGATGATACAACAGAAAAATAATGTAATTTAAAAAATTTGTTGAA 869
Db 5521 ATATTTTATTGCTACTGATGATACAACAGAAAAATAATGTAATTTAAAAAATTTGTTGAA 5580
Qy 870 AGGAGGTTACCTCTCATTTCTTTAGAAAAAAGCTTATGTAACCTTCATTTCCATATCCAA 929
Db 5581 AGGAGGTTACCTCTCATTTCTTTAGAAAAAAGCTTATGTAACCTTCATTTCCATATCCAA 5640
Qy 930 TATTTTATATATGTAAGTTTATTTTATTAAGTATACATTTTATTAATGTCAGTTTATTA 989
Db 5641 TACTTTATATATGTAAGTTTATTTTATTAAGTATACATTTTATTAATGTCAGTTTATTA 5700
Qy 990 ATATGGAATTTTATTAAGAAACATTTCTGCTATGATATATTT-AGTATAAGGCAAAATAT 1048
Db 5701 ATATGGAATTTTATTAAGAAACATTTCTGCTATGATATATTTTGAATATAAGCAAAATAT 5760
Qy 1049 ATTTATGCAATAACTATGGAACAAGATATCTTAGGCTTTTAATAAACACATGATATCA 1108
Db 5761 ATTTATGATAATAACTATGGAACAAGATATCTTAGGCTTTTAATAAACACATGATATCA 5820
Qy 1109 TAAA 1112
Db 5821 TAAA 5824

RESULT 5
US-11-102-240-153
; Sequence 153, Application US/11102240
; Publication No. US20050260647A1
; GENERAL INFORMATION:
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: ANTIBODIES TO POLYPEPTIDES ENCODED BY A NUCLEIC ACID UNDEREXPRESS
; TITLE OF INVENTION: ESOPHAGEAL TUMOR
; FILE REFERENCE: P3230R1C106C
; CURRENT APPLICATION NUMBER: US/11/102,240
; CURRENT FILING DATE: 2005-04-08
; PRIOR APPLICATION NUMBER: 10/063662
; PRIOR FILING DATE: 2002-05-07
; PRIOR APPLICATION NUMBER: 10/006867
; PRIOR FILING DATE: 2001-12-06
; PRIOR APPLICATION NUMBER: PCT/US00/23328
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: 60/170262
; PRIOR FILING DATE: 199-12-09
; NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 153
; LENGTH: 1152
; TYPE: DNA
; ORGANISM: Homo Sapien
US-11-102-240-153

Query Match 46.9%; Score 524.8; DB 7; Length 1152;
Best Local Similarity 73.2%; Pred. No. 3e-110;
Matches 832; Conservative 0; Mismatches 267; Indels 37; Gaps 11;

Qy 9 CTCCTCTCACTTATCAACTGTTGACACTGTGTGGGATCTCTGATGGCTTCCTGCGAGAA 68
Db 15 CTCCTTCCCAGTCACCAAGTTGCTCGAGTTAGAAATTTGCTGCAATGGCGCCCTGCGAGAA 74
Qy 69 ATCTATGAGTTTTCCTCTATGGGACTTTTGGCCGCCAGCTGCTCTCTCTCAATGGCCCT 128
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RESULT 6

; APPLICANT: Dumoutier, Laure
 ; APPLICANT: Renaud, Jean-Christophe
 ; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
 ; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
 ; FILE REFERENCE: LUD 5664
 ; CURRENT APPLICATION NUMBER: US/11/177,987
 ; CURRENT FILING DATE: 2005-07-07
 ; PRIOR APPLICATION NUMBER: US/09/626,617
 ; PRIOR FILING DATE: 2000-07-27
 ; PRIOR APPLICATION NUMBER: US09/419,568
 ; PRIOR FILING DATE: 1999-10-18
 ; PRIOR APPLICATION NUMBER: US09/354,243
 ; PRIOR FILING DATE: 1999-07-16
 ; PRIOR APPLICATION NUMBER: US09/178,973
 ; PRIOR FILING DATE: 1998-10-26
 ; NUMBER OF SEQ ID NOS: 43
 ; SEQ ID NO 26
 ; LENGTH: 4797
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 US-11-177-987-26

Query Match 11.3%; Score 126; DB 7; Length 4797;
 Best Local Similarity 71.7%; Pred.No.3.6e-19;
 Matches 165; Conservative 0; Mismatches 65; Indels 0; Gaps 0;

QY 9 CTCCTCTCTCATTATCAAGTGTGACACTTGTGCGATCTCTGATGCTCTGCTGCGAGAA 68
 DB 29 CTCCTCTCTCAGTCAACAGTGTCTGAGTAGAATGCTGCAATGCGCCCTGCGAGAA 88
 QY 69 ATCTATGAGTTTTTCCCTTATGCGGACTTTGGCGCGCAGCTGCTGCTCTCTCATTTGCCCT 128
 DB 89 ATCTGAGCTTTTCTTATGCGGACCTTGGCCACCAGCTGCTCTCTTTGGCCCT 148
 QY 129 GTGGGCGCAGAGGCAAAATGGCTGCCCCGTCAACACCCGGTGCAAGCTTGAGGTGTCAA 188
 DB 149 CTTGGTACAGGAGGAGCAGCTGGCGGCATCATGCTCCCACTGCGAGGCTTGACAAGTCAA 208
 QY 189 CTTCCAGCAGCGGTACATCGTCAACCCAGCCCTTTATGCTGGCCAAAGGAGG 238
 DB 209 CTTCCAGCGCCCTATATATCAACACCGACCTTCATGCTGGCTAAGGAGG 258

RESULT 9
 US-10-995-561-13313/c
 ; Sequence 13313, Application US/10995561
 ; Publication No. US20050272054A1
 ; GENERAL INFORMATION:
 ; APPLICANT: CARGILL, Michele et al.
 ; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
 ; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
 ; TITLE OF INVENTION: DETECTION AND USES THEREOF
 ; FILE REFERENCE: CL001559
 ; CURRENT APPLICATION NUMBER: US/10/995,561
 ; CURRENT FILING DATE: 2004-11-24
 ; NUMBER OF SEQ ID NOS: 85702
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 13313
 ; LENGTH: 26772
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-995-561-13313

Query Match 4.9%; Score 54.6; DB 6; Length 26772;
 Best Local Similarity 52.4%; Pred.No.0.014;
 Matches 140; Conservative 1; Mismatches 125; Indels 1; Gaps 1;

QY 852 TTTAAAAAATGTTTGAAGAGGTTACCTCTCATCTTTAGAAAAAAGCTTATGTAA 911
 DB 21973 TCTCAAAATACATATATATAATTTATATATATAAAATTTCTATATAAAATTTATATAT 21914
 QY 912 CTTTCATTTCCATATCCAAATATTTTATATATGTAAGTTTATTTATATATAAGTATACATTTT 971

; APPLICANT: CARGILL, Michele et al.
 ; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
 ; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
 ; TITLE OF INVENTION: DETECTION AND USES THEREOF
 ; FILE REFERENCE: C1001559
 ; CURRENT APPLICATION NUMBER: US/10/995,561
 ; CURRENT FILING DATE: 2004-11-24
 ; NUMBER OF SEQ ID NOS: 85702
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 13354
 ; LENGTH: 47444
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc.feature
 ; LOCATION: (1)...(47444)
 ; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
 US-10-995-561-13354

Query Match 4.8%; Score 53.4; DB 6; Length 47444;
 Best Local Similarity 49.8%; Pred. No. 0.036;
 Matches 163; Conservative 0; Mismatches 161; Indels 3; Gaps 1;
 Qy 793 ACAAGATTCATTGACCAATATTTTATGTCCTGATGATACACAGAAAAAATATGTAAT 852
 Db 27515 ATATATAATTATTATGATACATAATATACATAATATAATATAATATATGTAATACATA 27574
 Qy 853 TTAAGAAATGTTGAAAGAGGTTACCTCTCATCTCCCTTTAGAAAAAAGCTTATGTAAC 912
 Db 27575 ATATACATAATATAATATAATATATGTAATACATAATATAATATAATATAATATAAT 27634
 Qy 913 TTCAATTCATATCCCAATATTTTATATATATGTAAGTTTATTTTATTAAGTATACATTTTA 972
 Db 27635 TATGTAATACATAATATACATATATATATATATATATATATATATATATATATATAT 27694
 Qy 973 TTTATGTCAGTTTATTAATATGAGTTTATTTATAGAAACATTTCTGCTATTTGATATTTA 1032
 Db 27695 TATATAATATATATGTAATACATAATATACATAATATAATATAATATAATATATATAT 27754
 Qy 1033 GTATAAGCAAAATATATTTATGACATACTATGGAACAAAGATATCTTAGGCTTTAAT 1092
 Db 27755 ATATA--CATATAATATATATATATGTAATACATAATATAATATAATATAATATA 27811
 Qy 1093 AACACATGGATATCATAAAAAAA 1119
 Db 27812 TATTATGATACATAATATACATATA 27838

RESULT 15
 US-11-121-086-25/c
 ; Sequence 25, Application US/11121086
 ; Publication No. US20050266459A1
 ; GENERAL INFORMATION:
 ; APPLICANT: POULSEN, TIM S.
 ; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
 ; FILE REFERENCE: 09138.6000-00000
 ; CURRENT APPLICATION NUMBER: US/11/121,086
 ; CURRENT FILING DATE: 2005-05-04
 ; PRIOR APPLICATION NUMBER: 60/567,570
 ; PRIOR FILING DATE: 2004-05-04
 ; NUMBER OF SEQ ID NOS: 107
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 25
 ; LENGTH: 173602
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-11-121-086-25

Query Match 4.7%; Score 52.8; DB 7; Length 173602;
 Best Local Similarity 51.7%; Pred. No. 0.089;
 Matches 153; Conservative 0; Mismatches 132; Indels 11; Gaps 1;

Qy 799 ATTCAATTGACAATATTTTATTTGTCCTGATGATACACAGAAAAAATATGTAATTTAAAA 858
 Db 136386 ATATATTTATATATAATTTTATATATATTTGTAATATATTTATATATAATATAATTTATAT 136327
 Qy 859 AATTGTTTGAAGAGGTTACCTCTCATCTCCCTTTAGAAAAAAGCTTATGTAACCTTCATT 918
 Db 136326 ATAAATATATAAATATATAATTTTATATATATTTTATATATATAATAATATAATATAAT 136267
 Qy 919 TCCATATCCCAATATTTTATATATATGTAAGTTTATTTATTAAGTATATACATTTTATTTATG 978
 Db 136266 TATATAATTTTATATATATATATAATATAATATAATATAATTTTATATATATATAATATA 136207
 Qy 979 TCAGTTTATTAATATGCAATTTTATATAGAAACATTTCTGCTATTTGATATTTAGTATAA 1038
 Db 136206 T-----TATATATTTATATATAATATAATTTTATATATATATATATATATATATAA 136158
 Qy 1039 GGCATAATATATTTATGACAAATTAATCTATGGAACAAAGATATCTTAGGCTTTAATAA 1094
 Db 136157 TATATATTTATATATTTTATATATATTTTATAAATATATAATATAATTTTATATATAA 136102

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 Job time : 82.0229 secs

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OM nucleic - nucleic search, using sw model

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Title: US-09-751-797-8

Perfect score: 7445

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Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	7445	100.0	7445	3	US-09-354-243B-8
4	4245.2	57.0	5935	3	US-09-178-973B-17
5	4245.2	57.0	5935	3	US-09-419-568F-29
6	4245.2	57.0	5935	3	US-09-354-243B-29
7	1081	14.5	8888	3	US-09-949-016-17185
8	686	9.2	4797	3	US-09-419-568F-25
9	686	9.2	4797	3	US-09-354-243B-25
10	601.4	8.1	1119	3	US-09-178-973B-7
11	601.4	8.1	1119	3	US-09-419-568F-7
12	601.4	8.1	1119	3	US-09-354-243B-7
13	598.2	8.0	1166	3	US-10-084-298-3
14	555.2	7.5	1111	3	US-09-178-973B-9
15	555.2	7.5	1111	3	US-09-419-568F-9
16	555.2	7.5	1111	3	US-09-354-243B-9
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21	214.2	2.9	1152	3	US-09-870-574-1
22	181.4	2.4	601	3	US-09-949-016-190092
23	126	1.7	689	3	US-09-949-016-5443
24	126	1.7	690	3	US-09-419-568F-24

ALIGNMENTS

RESULT 1

US-09-178-973B-8

; Sequence 8, Application US/09178973B

; Patent No. 6274710

; GENERAL INFORMATION:

; APPLICANT: Dumoutier, Laure

; APPLICANT: Louhed, Jamila

; APPLICANT: Renauld, Jean-Christophe

; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac

; TITLE OF INVENTION: (Tifs)

; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof

; FILE REFERENCE: LUD 5543

; CURRENT APPLICATION NUMBER: US/09/178,973B

; CURRENT FILING DATE: 1998-10-26

; NUMBER OF SEQ ID NOS: 17

; SEQ ID NO 8

; LENGTH: 7445

; TYPE: DNA

; ORGANISM: Mus musculus

; US-09-178-973B-8

Query Match 100.0%; Score 7445; DB 3; Length 7445;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 7445; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GTCTATCACTGCTTAAGATTCTTCTAAATTTATAAAAAAACTATTCTTAAATGAAA	60
Db	1	GTCTATCACTGCTTAAGATTCTTCTAAATTTATAAAAAAACTATTCTTAAATGAAA	60
Qy	61	GCAACAGAGCAGCTATTTATAGCATGGTGTCTTGACCATGCGAGGTACAGAGTGGATGG	120
Db	61	GCAACAGAGCAGCTATTTATAGCATGGTGTCTTGACCATGCGAGGTACAGAGTGGATGG	120
Qy	121	TAAGAGGCGCTATATCAGCATTTAAACAATGTTTAAATGTTTCTTCTGCGAGCAAACT	180
Db	121	TAAGAGGCGCTATATCAGCATTTAAACAATGTTTAAATGTTTCTTCTGCGAGCAAACT	180
Qy	181	TGAATCTATGCTTAAACAATCTTCAAGCCTCTATATAGTCTACGACTGGAGTCCG	240
Db	181	TGAATCTATGCTTAAACAATCTTCAAGCCTCTATATAGTCTACGACTGGAGTCCG	240
Qy	241	CTGCTGTCAACAGAGCTCTTGAGCAGCTCTCTCTCTGTTTGAATTTATGTTCTTTGA	300
Db	241	CTGCTGTCAACAGAGCTCTTGAGCAGCTCTCTCTCTGTTTGAATTTATGTTCTTTGA	300
Qy	301	TCGACTCCCAACCTCTCACTTCCGCTCTCTGAGGCCACCTTCACTTCTGCAATTTA	360

Qy	2521	CATTTCTCTGTGTCCTCTCTTCTGAACTCATATCTCTTTGGCTACTCTCTGAGACCCACTGGC	2580
Db	2521	CATTTCTCTGTGCTCTCTCTCTGAACTCATATCTCTCTTTGGCTACTCTCTGAGACCCACTGGC	2580
Qy	2581	GACATACATCTCTACTTTACAGGCTTTTCTTCCATCTCTCTTTGTACACCCAGACCATTAGGCT	2640
Db	2581	GACATACATCTCTACTTTACAGGCTTTTCTTCCATCTCTCTTTGTACCCAGGCACTTAGGGT	2640
Qy	2641	TTTCTCTCTTTTCAGGCCAGGCTTGCAGATAACCAACACAGACGTCCTCGGCTCATCGGGAGA	2700
Db	2641	TTTCTCTCTTTTCAGGCCAGGCTTGCAGATAACCAACACAGACGTCCTCGGCTCATCGGGAGA	2700
Qy	2701	AACGTGTTCCGAGGAGTCAGTGAAGTCTCTCACTGTGATGAGCAGGGCTAGCTGCGGAGC	2760
Db	2701	AACGTGTTCCGAGGAGTCAGTGAAGTCTCTCACTGTGATGAGCAGGGCTAGCTGCGGAGC	2760
Qy	2761	TGTGGACCTCTGGGATAGTCTGACGTATGACCCCTGCTCTTGTCTTACTCTACTCTGCAGG	2820
Db	2761	TGTGGACCTCTGGGATAGTCTGACGTATGACCCCTGCTCTTGTCTTACTCTACTCTGCAGG	2820
Qy	2821	CTAAGATCAGTGTCTACTCTGATGAAGCAGGTGCTCAACTTCACCCCTGGAAGAGTTCCTGC	2880
Db	2821	CTAAGATCAGTGTCTACTCTGATGAAGCAGGTGCTCAACTTCACCCCTGGAAGAGTTCCTGC	2880
Qy	2881	TCCCCCAGTCAGACAGGTTCCAGCCCTACATGACAGGAGTGCTCACTTCACCTGGAAGAGTTC	2940
Db	2881	TCCCCCAGTCAGACAGGTTCCAGCCCTACATGACAGGAGTGCTCACTTCACCTGGAAGAGTTC	2940
Qy	2941	TCAGCAATCAGCTCAGCTCTCTGTGTAGTCTGACTCTGGCTACCTATGCTCTCTCTCTT	3000
Db	2941	TCAGCAATCAGCTCAGCTCTCTGTGTAGTCTGACTCTGGCTACCTATGCTCTCTCTCTT	3000
Qy	3001	CCTCTTCTATTTCAGTAAGAACCCGAGGTCCTGCCCCCTCTCTCTTTCACAAGAGTGAGGA	3060
Db	3001	CCTCTTCTATTTCAGTAAGAACCCGAGGTCCTGCCCCCTCTCTCTTTCACAAGAGTGAGGA	3060
Qy	3061	GGGCTCAGCACCAACCACTATAGGCCACTTGAATAGGTGTCACAAAGGCTTTGGCTTC	3120
Db	3061	GGGCTCAGCACCAACCACTATAGGCCACTTGAATAGGTGTCACAAAGGCTTTGGCTTC	3120
Qy	3121	AATTGAGTAACTCTTTCAGTTTGTATCAGTGAAAGCTTTATTTGTTTTATCCATGGGAAGA	3180
Db	3121	AATTGAGTAACTCTTTCAGTTTGTATCAGTGAAAGCTTTATTTGTTTTATCCATGGGAAGA	3180
Qy	3181	AATCAACTCAAATTCCTTAGGATGAGAAAGATGTTGGGAACGAAAAAGCCCTAGATAGA	3240
Db	3181	AATCAACTCAAATTCCTTAGGATGAGAAAGATGTTGGGAACGAAAAAGCCCTAGATAGA	3240
Qy	3241	GAACAGATCTGCTGAGTATAGTACTTTATGGGGGAGCAGGGGCGGATATCCACTGAGTA	3300
Db	3241	GAACAGATCTGCTGAGTATAGTACTTTATGGGGGAGCAGGGGCGGATATCCACTGAGTA	3300
Qy	3301	CAAGTACTTGTGGGAGAGAAATCCACTGAGTACAAGTACTTGTGGCATGGAGATCCAC	3360
Db	3301	CAAGTACTTGTGGGAGAGAAATCCACTGAGTACAAGTACTTGTGGCATGGAGATCCAC	3360
Qy	3361	TGACTACAAGTACTTGTGGGGAGGAAATGGGCACAGACGAAAAAGTTGAAGGGAAGGAAG	3420
Db	3361	TGACTACAAGTACTTGTGGGGAGGAAATGGGCACAGACGAAAAAGTTGAAGGGAAGGAAG	3420
Qy	3421	ATGAGAGGGCTCATAGTTGGGGGTGTGAAAGGTCCTCTCTTTTCCAATGTGATGGAGAGT	3480
Db	3421	ATGAGAGGGCTCATAGTTGGGGGTGTGAAAGGTCCTCTCTTTTCCAATGTGATGGAGAGT	3480
Qy	3481	TAGAAAAAACAGTGTGTGAGTTTGATGTCTTCAGACACCCCCCAACTATGAAACATATCC	3540
Db	3481	TAGAAAAAACAGTGTGTGAGTTTGATGTCTTCAGACACCCCCCAACTATGAAACATATCC	3540
Qy	3541	ACGAGGAGCGGCAGACTGTGGGAGACCTGGCATTTTAGGGAAGCGCGGCTTTTCAACG	3600
Db	3541	ACGAGGAGCGGCAGACTGTGGGAGACCTGGCATTTTAGGGAAGCGCGGCTTTTCAACG	3600
Qy	3601	AGAAACTTTATGCTCATCTCTTGTGCTACACTCCCACTTTGATGAGGTTTCAGCTCAGGT	3660

3601	AGAAACATTTATGCTCATCTTGTGTGTAACATCCCAACCTTTTGATGAGGTTCCAGCTCAGGT	3660
3661	TTCGTTTCTACCGTTCTTGCTACTGCTGGAACATTCAGTAGGATTCGCCAAAGACGAGGA	3720
3661	TTCGTTTCTACCGTTCTTGCTACTGCTGGAACATTCAGTAGGATTCGCCAAAGACGAGGA	3720
3721	CAGCTCTTCTGTAAAGGAGGACCTCGATTTTCAGTGTCTTAGAGAAACGAAATAGCTCAGA	3780
3721	CAGCTCTTCTGTAAAGGAGGACCTCGATTTTCAGTGTCTTAGAGAAACGAAATAGCTCAGA	3780
3781	GAACTTAGGTCACGTTGAAATCTAGGTCACAGGGGGCAAAATGACTGAAAGCCCTCTATT	3840
3781	GAACTTAGGTCACGTTGAAATCTAGGTCACAGGGGGCAAAATGACTGAAAGCCCTCTATT	3840
3841	CCAGGTGAAACGGTCACTGCGCTCAGATATACTAGAGTATTTGGGCTCCCAACGGGATAAGAT	3900
3841	CCAGGTGAAACGGTCACTGCGCTCAGATATACTAGAGTATTTGGGCTCCCAACGGGATAAGAT	3900
3901	TCTGTTAGTAGAGTCGCTGTTTTATTTTTCAGACACATCAGCGGTGACGACAGAAATCCAG	3960
3901	TCTGTTAGTAGAGTCGCTGTTTTATTTTTCAGACACATCAGCGGTGACGACAGAAATCCAG	3960
3961	AGAATGTCAGAAGGCTGAAGGAGACAGTGAAAAAGGTACTATTGGCGAAGCCACAATACT	4020
3961	AGAATGTCAGAAGGCTGAAGGAGACAGTGAAAAAGGTACTATTGGCGAAGCCACAATACT	4020
4021	AAGCATTTCAGTAGGAGCGTGGGATTTCTTTCTGCTCCAGTCCCTTCTACTTTTG	4080
4021	AAGCATTTCAGTAGGAGCGTGGGATTTCTTTCTGCTCCAGTCCCTTCTACTTTTG	4080
4081	TAAACATTTATTTGACTTGTCTACTATCTGGTCCATTACTCGCTTAGTCGCACTGTATC	4140
4081	TAAACATTTATTTGACTTGTCTACTATCTGGTCCATTACTCGCTTAGTCGCACTGTATC	4140
4141	TAGCTGGGTCATATAGATCTTTCAATCTGTGCTTAAATTTGTAAGTCACAATTTCTGGAGCT	4200
4141	TAGCTGGGTCATATAGATCTTTCAATCTGTGCTTAAATTTGTAAGTCACAATTTCTGGAGCT	4200
4201	AGCAGAAAGCTTTAGCTCAGCCAGCTCTCATGACACTTGTCTGGAGAGTGGCTGTGCACAG	4260
4201	AGCAGAAAGCTTTAGCTCAGCCAGCTCTCATGACACTTGTCTGGAGAGTGGCTGTGCACAG	4260
4261	AGTCAATGCTAGAAGACAGCATCCCTGATTCGCCAGCTCTGCACCTTGCCTAGTGGCCATGT	4320
4261	AGTCAATGCTAGAAGACAGCATCCCTGATTCGCCAGCTCTGCACCTTGCCTAGTGGCCATGT	4320
4321	GTAATTAATTGGCTTGATTAAGTATTTGGGAAAGCAGTTCCTCCACGAGCCTACATAATC	4380
4321	GTAATTAATTGGCTTGATTAAGTATTTGGGAAAGCAGTTCCTCCACGAGCCTACATAATC	4380
4381	TGAGAACCATGCAATTGAAACCTAGAAAGCTGGGCACAAACCTTACTAGAGATGATTTTGTG	4440
4381	TGAGAACCATGCAATTGAAACCTAGAAAGCTGGGCACAAACCTTACTAGAGATGATTTTGTG	4440
4441	AGCTCATTTAAACGGATGCTCTGAAATGTGGCAAAATCAACCCAGAAATAACAAACAAAGAG	4500
4441	AGCTCATTTAAACGGATGCTCTGAAATGTGGCAAAATCAACCCAGAAATAACAAACAAAGAG	4500
4501	CTGGATTTGCAATPAGGACAAGTATTTAGAAATCACTGGTATTTAATPAGCTATCATCTTAAT	4560
4501	CTGGATTTGCAATPAGGACAAGTATTTAGAAATCACTGGTATTTAATPAGCTATCATCTTAAT	4560
4561	TAAATATAGGGCCTATATATATTTTAGATTTAAACACAGAGTGGATAGCCCTCCCAAT	4620
4561	TAAATATAGGGCCTATATATATTTTAGATTTAAACACAGAGTGGATAGCCCTCCCAAT	4620
4621	TTACTTGGCCTGGTTTCAAAGAGTAAAAATATCAGTCATGGATTAATTAATPAGTGTCAATG	4680
4621	TTACTTGGCCTGGTTTCAAAGAGTAAAAATATCAGTCATGGATTAATTAATPAGTGTCAATG	4680
4681	AAAGATPAGAGATGAAACCCCTTCCCTTACTTTTACCTTCACTTCTTAGTTTTTTTTTTTTC	4740

Db 4681 AAAGTATGAGATGGAAACCCCTTCTCCTTACCTTTTACCTTCATTTCTTAGTTTTTTTTTTC 4740
Qy 4741 TTCAACCCCTGATCAAGCCACTAGTAAGCACCCTATCTCTGCTGAGGCTATTATATGACTTT 4800
Db 4741 TTCAACCCCTGATCAAGCCACTAGTAAGCACCCTATCTCTGCTGAGGCTATTATATGACTTT 4800
Qy 4801 ACAGCAAAACAACATTGCTGTGTGCGCTCTTTTGGGGAAGGGAACAGGATAGCAGAGGCTC 4860
Db 4801 ACAGCAAAACAACATTGCTGTGTGCGCTCTTTTGGGGAAGGGAACAGGATAGCAGAGGCTC 4860
Qy 4861 AGGCTAGCAAGTCTGACTTGCCTTAAAGCCAGAGGCAATGTTGATAGCAGAGAAAGTGAG 4920
Db 4861 AGGCTAGCAAGTCTGACTTGCCTTAAAGCCAGAGGCAATGTTGATAGCAGAGAAAGTGAG 4920
Qy 4921 GCTCTTCGCAAGTGGGTGCTTAAAGCTAATCAGAAAAACAGNAAGGCTCCGGTTGATGAAT 4980
Db 4921 GCTCTTCGCAAGTGGGTGCTTAAAGCTAATCAGAAAAACAGNAAGGCTCCGGTTGATGAAT 4980
Qy 4981 TATCAGTAAGATATCTACCCCTTATCTCTCTATCGAACCTTAAATCGTCTCTTTTCTTG 5040
Db 4981 TATCAGTAAGATATCTACCCCTTATCTCTCTATCGAACCTTAAATCGTCTCTTTTCTTG 5040
Qy 5041 TGTGTAGGCTGATAAAAACACTTGTCTTTTTCAGTGTTCATGGCTTTGTAGATTTTTTA 5100
Db 5041 TGTGTAGGCTGATAAAAACACTTGTCTTTTTCAGTGTTCATGGCTTTGTAGATTTTTTA 5100
Qy 5101 GTGCTCTGCCAGTTCTTGTAGAGGGTTGTACTTGTGACACCTGGGCTTGGATGTTAGC 5160
Db 5101 GTGCTCTGCCAGTTCTTGTAGAGGGTTGTACTTGTGACACCTGGGCTTGGATGTTAGC 5160
Qy 5161 ATGCCAAAGGCACACACTTCTGAATGCTGTGTAAAGGTTTATTATTATCATTTACTTTGTC 5220
Db 5161 ATGCCAAAGGCACACACTTCTGAATGCTGTGTAAAGGTTTATTATTATCATTTACTTTGTC 5220
Qy 5221 TTTGGAAAGGTGAAGCGTGTGTGAGAAAGAACTCACAGGAGATGTTTCTCTGTAGGAAA 5280
Db 5221 TTTGGAAAGGTGAAGCGTGTGTGAGAAAGAACTCACAGGAGATGTTTCTCTGTAGGAAA 5280
Qy 5281 ACTTTTTTTTCCCTTAAATGCGCTAATCCACTTTTCAGTCAACTTTTGACTTTTATACC 5340
Db 5281 ACTTTTTTTTCCCTTAAATGCGCTAATCCACTTTTCAGTCAACTTTTGACTTTTATACC 5340
Qy 5341 ATGCTGTACATGAAGAGTGTGTAGGCCCTCTCATGGCTCTGGGAAAGCACCATA 5400
Db 5341 ATGCTGTACATGAAGAGTGTGTAGGCCCTCTCATGGCTCTGGGAAAGCACCATA 5400
Qy 5401 GGGGAAGGAATGTTATGCTGAGAAATCTGACCGGACGGGAAACTGGTCAGAGCTCCCCCG 5460
Db 5401 GGGGAAGGAATGTTATGCTGAGAAATCTGACCGGACGGGAAACTGGTCAGAGCTCCCCCG 5460
Qy 5461 AAGACCACACAGGTGTTAAGTAGGAACAGTCCAGGGTGGGCTCATGTAAATAGAAATGGA 5520
Db 5461 AAGACCACACAGGTGTTAAGTAGGAACAGTCCAGGGTGGGCTCATGTAAATAGAAATGGA 5520
Qy 5521 CAGAGCAGGGAAGATAAGCTACAAAGTTTTCATAGGGTCCGAGTCTTAAAGATACAAAA 5580
Db 5521 CAGAGCAGGGAAGATAAGCTACAAAGTTTTCATAGGGTCCGAGTCTTAAAGATACAAAA 5580
Qy 5581 TAGTCTCTGGGCTTCATAACAAAGGAAGTCTGGGAAGCGCAAGTGGAGGGGAAATGG 5640
Db 5581 TAGTCTCTGGGCTTCATAACAAAGGAAGTCTGGGAAGCGCAAGTGGAGGGGAAATGG 5640
Qy 5641 AAAGGGAAAAACAGAAATGTAGAGGACCTTGAACAGCTACAAATCCTCTACCAGACGATTT 5700
Db 5641 AAAGGGAAAAACAGAAATGTAGAGGACCTTGAACAGCTACAAATCCTCTACCAGACGATTT 5700
Qy 5701 TTTCTGGAAACATCTAGAGGTAGTGGATTAAGTGAATTCAGGGGACCTCTTTGGCCAT 5760
Db 5701 TTTCTGGAAACATCTAGAGGTAGTGGATTAAGTGAATTCAGGGGACCTCTTTGGCCAT 5760
Qy 5761 TTGAATCTGGGTTTTTGTCTCTCCATTTGAGGTTGAAAGCGTCACCTTTTTTACCCTCGAA 5820
Db 5761 TTGAATCTGGGTTTTTGTCTCTCCATTTGAGGTTGAAAGCGTCACCTTTTTTACCCTCGAA 5820

Qy 5821 TGGAGGAGGAAAGAAAGGGGTGTTATGACTCCTACCTGGAGTTTTACTAGTTTACGCAATG 5880
Db 5821 TGGAGGAGGAAAGAAAGGGGTGTTATGACTCCTACCTGGAGTTTTACTAGTTTACGCAATG 5880
Qy 5881 GAACAGACACTCGGGACCTCCTCTTGACAAAAAAAATGGAACCTGTGTGTCTGTGTT 5940
Db 5881 GAACAGACACTCGGGACCTCCTCTTGACAAAAAAAATGGAACCTGTGTGTCTGTGTT 5940
Qy 5941 TGTTCCTTTTGTAAAGAACACAGGCAAGCCGACACATGGGTTCGAATGTGGGTCTTT 6000
Db 5941 TGTTCCTTTTGTAAAGAACACAGGCAAGCCGACACATGGGTTCGAATGTGGGTCTTT 6000
Qy 6001 GAGTCAAGGCTTTTGTAGTTCAGCACTCATCAATAGTTGATCATGCTCAGGTGGAAGGCTA 6060
Db 6001 GAGTCAAGGCTTTTGTAGTTCAGCACTCATCAATAGTTGATCATGCTCAGGTGGAAGGCTA 6060
Qy 6061 CTTGTCAAGGCGAGCCCTGCTGCTTCGCACTTAAACATCTCCAGGTCTCAGATFCACTTC 6120
Db 6061 CTTGTCAAGGCGAGCCCTGCTGCTTCGCACTTAAACATCTCCAGGTCTCAGATFCACTTC 6120
Qy 6121 CTGCTACTTAGCACAGTTAGAGTTGAGCAACCTTTTTTCCAAACCCCACTAAAATTT 6180
Db 6121 CTGCTACTTAGCACAGTTAGAGTTGAGCAACCTTTTTTCCAAACCCCACTAAAATTT 6180
Qy 6181 AATTGCAAAAAGACTGTGTAATTTGTGGGATACAGTGTGATTAATTGATCTATGTGTGCAT 6240
Db 6181 AATTGCAAAAAGACTGTGTAATTTGTGGGATACAGTGTGATTAATTGATCTATGTGTGCAT 6240
Qy 6241 TGTCAAAGGTTCAATAAGATAGATTAATAGGCCCATCAACAGCTTTATGGGTGTGAAATG 6300
Db 6241 TGTCAAAGGTTCAATAAGATAGATTAATAGGCCCATCAACAGCTTTATGGGTGTGAAATG 6300
Qy 6301 CAAGTAATATAGGTAGATGCTGTGGTCTCTTAGGTGAGAAAGGCAATGATTTTAAAGTTC 6360
Db 6301 CAAGTAATATAGGTAGATGCTGTGGTCTCTTAGGTGAGAAAGGCAATGATTTTAAAGTTC 6360
Qy 6361 TTGGGCAAAATCATATTATACTCATGCTAAAAATACATTATGTTGATTATTAATCTTTTAG 6420
Db 6361 TTGGGCAAAATCATATTATACTCATGCTAAAAATACATTATGTTGATTATTAATCTTTTAG 6420
Qy 6421 AGAAGGCTGATPACTTGGTCTTGGTGTCTCAGCAAGCAAAATGTCAACAGCTCTTTCTAAC 6480
Db 6421 AGAAGGCTGATPACTTGGTCTTGGTGTCTCAGCAAGCAAAATGTCAACAGCTCTTTCTAAC 6480
Qy 6481 GTACCACTTTAGAAAAATGCTGCTGCTCAAAATGGTTGTATTTCTTATTTTTCATAGCT 6540
Db 6481 GTACCACTTTAGAAAAATGCTGCTGCTCAAAATGGTTGTATTTCTTATTTTTCATAGCT 6540
Qy 6541 TGGAGAGAGTGGAGAGATCAAGGCGATTGGGAACTGGACCTGCTGTTTATGTCTCTGAG 6600
Db 6541 TGGAGAGAGTGGAGAGATCAAGGCGATTGGGAACTGGACCTGCTGTTTATGTCTCTGAG 6600
Qy 6601 AAATGCTTGGCTCTGAGCGAGAAAGCTAGAAAACGAAAGAACTGCTCTTCTGCTTC 6660
Db 6601 AAATGCTTGGCTCTGAGCGAGAAAGCTAGAAAACGAAAGAACTGCTCTTCTGCTTC 6660
Qy 6661 TAAAAAGAACATTAAGATCCCTGAATGGAATTTTTTACTTAAAGNAAGTGGAGAGCTAAC 6720
Db 6661 TAAAAAGAACATTAAGATCCCTGAATGGAATTTTTTACTTAAAGNAAGTGGAGAGCTAAC 6720
Qy 6721 GTCCATCATCATTTAAGAGATTTTCATGMAACCTGGCTCAGTTGMAAAGAAAATAGTGT 6780
Db 6721 GTCCATCATCATTTAAGAGATTTTCATGMAACCTGGCTCAGTTGMAAAGAAAATAGTGT 6780
Qy 6781 CAAGTTGTCCATGAGACCAGAGGTAGACTTTGATAACCAAAAGATTCATTGACAATATTT 6840
Db 6781 CAAGTTGTCCATGAGACCAGAGGTAGACTTTGATAACCAAAAGATTCATTGACAATATTT 6840
Qy 6841 TATTGTCACTGATGATACACAGAAAAATATGTTTAAATAATTTGTTTGAAGGAGG 6900
Db 6841 TATTGTCACTGATGATACACAGAAAAATATGTTTAAATAATTTGTTTGAAGGAGG 6900

Qy	1141	TTGCACAAGTAAATGTGAGAGAAATTAGCAAAATGTATAGTATTATTTTAAAAAAA	1200
Db	1141	TTGCACAAGTAAATGTGAGAGAAATTAGCAAAATGTATAGTATTATTTTAAAAAAA	1200
Qy	1201	TCTATGCTTAAATGTCTATTAGATTGTTTCACTACCGATATTTCAAAACCTTAACCTTGACC	1260
Db	1201	TCTATGCTTAAATGTCTATTAGATTGTTTCACTACCGATATTTCAAAACCTTAACCTTGACC	1260
Qy	1261	TTGGCTATGATTTCAACCTTTGTATTGTTGATCTACCAATAACAGTCTCTGAAACCAAGACAT	1320
Db	1261	TTGGCTATGATTTTCAACCTTTGTATTGCAATCTACCAATAACAGTCTCTGAAACCAAGACAT	1320
Qy	1321	TCTGTGCAATGGAGCTGTGAAGAAAGCCAAACATCTTATTAAAAAAAACAGCTA	1380
Db	1321	TCTGTGCAATGGAGCTGTGAAGAAAGCCAAACATCTTATTAAAAAAAACAGCTA	1380
Qy	1381	GTTATAGTTTAGGATTCATATACTAAAAAATAGAGATATAATATTATTTAAAAATTTGA	1440
Db	1381	GTTATAGTTTAGGATTCATATACTAAAAAATAGAGATATAATATTATTTAAAAATTTGA	1440
Qy	1441	AATTAATCTCCAAGTTTTCATTATGGCTTATTTCBAAGCAGAGATATAGGACAGGCTCT	1500
Db	1441	AATTAATCTCCAAGTTTTCATTATGGCTTATTTCBAAGCAGAGATATAGGACAGGCTCT	1500
Qy	1501	TTTATTTCTGGTCACTTCTAAAGAGATAAGAAATCTATGAAGTTGGTGGGAAAAATGAGTCC	1560
Db	1501	TTTATTTCTGGTCACTTCTAAAGAGATAAGAAATCTATGAAGTTGGTGGGAAAAATGAGTCC	1560
Qy	1561	GTGACAAAAACGCTGACTCAATAGCTACGGAGATCAAAGGCTGCTCTACTCAATCAGAA	1620
Db	1561	GTGACAAAAACGCTGACTCAATAGCTACGGAGATCAAAGGCTGCTCTACTCAATCAGAA	1620
Qy	1621	TCTACTAGGCAAAAGCCATGGCTTTCTTGAACACCGTGTTTAGAAATTTCTGGGATTT	1680
Db	1621	TCTACTAGGCAAAAGCCATGGCTTTCTTGAACACCGTGTTTAGAAATTTCTGGGATTT	1680
Qy	1681	GTGTGCAAAAGCACTTTGTGGCCCTCACCGTAGCTTTTAGGGAAGACTTCCCATCTCT	1740
Db	1681	GTGTGCAAAAGCACTTTGTGGCCCTCACCGTAGCTTTTAGGGAAGACTTCCCATCTCT	1740
Qy	1741	CAAGGTGGGAAGGCTTGAGAGTGTGTCTTGTGGCCCTCTATAGTGTGGTACTTCTC	1800
Db	1741	CAAGGTGGGAAGGCTTGAGAGTGTGTCTTGTGGCCCTCTATAGTGTGGTACTTCTC	1800
Qy	1801	AGAGACAGGACTGGAAATTAGATAATGTCTGATGTCAATATCATTTCAATACCAAAAAA	1860
Db	1801	AGAGACAGGACTGGAAATTAGATAATGTCTGATGTCAATATCATTTCAATACCAAAAAA	1860
Qy	1861	ACCTGGTGTCCGATGGCTATAAAGCAGCAACTTCTGCCCTCTCCCATCAACAGCAGAG	1920
Db	1861	ACCTGGTGTCCGATGGCTATAAAGCAGCAACTTCTGCCCTCTCCCATCAACAGCAGAG	1920
Qy	1921	ACACCTAAACAGGTAAGCACTCAGACCTCTACAGCAATCATCTGCTTGGTACCATGCTA	1980
Db	1921	ACACCTAAACAGGTAAGCACTCAGACCTCTACAGCAATCATCTGCTTGGTACCATGCTA	1980
Qy	1981	CCGACGAAACATGCTCCCTGATGTTTGTGCTTTTGTCTCTCACTAACAGGCTCTCCT	2040
Db	1981	CCGACGAAACATGCTCCCTGATGTTTGTGCTTTTGTCTCTCACTAACAGGCTCTCCT	2040
Qy	2041	CTCACTTATCAACTGTTGACACTTGTGGATCTCTGATGGCTGTCCCGCAAAATCTATG	2100
Db	2041	CTCACTTATCAACTGTTGACACTTGTGGATCTCTGATGGCTGTCCCGCAAAATCTATG	2100
Qy	2101	AGTTTTCCTTATGGGACCTTGGCCGACGCTGCTGCTTCTCATTTGCCCTGTGGGCC	2160
Db	2101	AGTTTTCCTTATGGGACCTTGGCCGACGCTGCTGCTTCTCATTTGCCCTGTGGGCC	2160
Qy	2161	CAGGAGGCAATATGCGCTGCCGTCAAACCCGGTGGAGCTTGAGGCTCCAACCTTCCAG	2220
Db	2161	CAGGAGGCAATATGCGCTGCCGTCAAACCCGGTGGAGCTTGAGGCTCCAACCTTCCAG	2220
Qy	2221	CAGCGGTACATCGTCAACCGCACCTTTTATGCTGGCCAAAGGAGGTACAGCTGCTCTCTT	2280

Db	2221	CAGCGGTACATCGTCAACCGCACCTTTTATGCTGGCCAAAGGAGGTACAGCTGCTCTTT	2280
Qy	2281	CTCTCCATACCGCTTGCCCAATTTTCTCTGAAGCACTTGCAAACTCTTTTAGGGCGCTTTA	2340
Db	2281	CTCTCCATACCGCTTGCCCAATTTTCTCTGAAGCACTTGCAAACTCTTTTAGGGCGCTTTA	2340
Qy	2341	TCTCCGAGGTCTCACTACCTATGTTTTCTGTCTCTTTAGAGACTCTTTAAGGACTGGGT	2400
Db	2341	TCTCCGAGGTCTCACTACCTATGTTTTCTGTCTCTTTAGAGACTCTTTAAGGACTGGGT	2400
Qy	2401	CTTTTCTATTCTTATTTCAAGGTCTCAGAACCATTTCTCTATCTTGGCCTTCAGGACACA	2460
Db	2401	CTTTTCTATTCTTATTTCAAGGTCTCAGAACCATTTCTCTATCTTGGCCTTCAGGACACA	2460
Qy	2461	TATACTGAATTTTATCTACAGAGCGCATTTAGAAAGCCACCCAGACTGCAATACATTTC	2520
Db	2461	TATACTGAATTTTATCTACAGAGCGCATTTAGAAAGCCACCCAGACTGCAATACATTTC	2520
Qy	2521	CATTTCTCTGTCTCTCTTCTGAACCTCATCTCTTTGGCTACTCTTGAGACCCACTGCG	2580
Db	2521	CATTTCTCTGTCTCTCTTCTGAACCTCATCTCTTTGGCTACTCTTGAGACCCACTGCG	2580
Qy	2581	GACATACATCTCTACTTACAGGCTTTTCTTCCATCTCTTGTCTCACCCAGGACTTAGGGT	2640
Db	2581	GACATACATCTCTACTTACAGGCTTTTCTTCCATCTCTTGTCTCACCCAGGACTTAGGGT	2640
Qy	2641	TTTCTCTCTTTTCAGGCGAGCTTGCAGATAAACACAGACGTCCTGGCTCATCGGGGAGA	2700
Db	2641	TTTCTCTCTTTTCAGGCGAGCTTGCAGATAAACACAGACGTCCTGGCTCATCGGGGAGA	2700
Qy	2701	AACTGTTTCCGAGGAGTCAGTGTAAAGTCTCTCACTGTGATGAGCAGGGCTAGCTGCGGAGC	2760
Db	2701	AACTGTTTCCGAGGAGTCAGTGTAAAGTCTCTCACTGTGATGAGCAGGGCTAGCTGCGGAGC	2760
Qy	2761	TGFTGGAACCTCTTGGAATAGTCTGAAGTATGACCCCTGCTCTTCTTGTCTACCTGAGG	2820
Db	2761	TGFTGGAACCTCTTGGAATAGTCTGAAGTATGACCCCTGCTCTTCTTGTCTACCTGAGG	2820
Qy	2821	CTAAAGATCAGTCTACTGATGAAGCAGGTGCTCAACTTCAACCCTGGAAGCCTTCTGC	2880
Db	2821	CTAAAGATCAGTCTACTGATGAAGCAGGTGCTCAACTTCAACCCTGGAAGCCTTCTGC	2880
Qy	2881	TCCCCAGTCAGACAGGTTCCAGCCCTACATGACAGAGGTGGTACCTTCTCTGACCAAAAC	2940
Db	2881	TCCCCAGTCAGACAGGTTCCAGCCCTACATGACAGAGGTGGTACCTTCTCTGACCAAAAC	2940
Qy	2941	TCAGCAATCAGCTCAGCTCCTGTGTAAAGTCTGAACCTCTGGCTACCTATGCTCTCTCTT	3000
Db	2941	TCAGCAATCAGCTCAGCTCCTGTGTAAAGTCTGAACCTCTGGCTACCTATGCTCTCTCTT	3000
Qy	3001	CCTCTTCTATTCCAGTAAGAACCCGAGGTCTGCCCCCTCTCTCTTCAAGAGTGAAGA	3060
Db	3001	CCTCTTCTATTCCAGTAAGAACCCGAGGTCTGCCCCCTCTCTCTTCAAGAGTGAAGA	3060
Qy	3061	GGGCTCAGCAACCAACCACTATAGGCCACTTGAAATAGGTACAAAGGCTTTGGCTTC	3120
Db	3061	GGGCTCAGCAACCAACCACTATAGGCCACTTGAAATAGGTACAAAGGCTTTGGCTTC	3120
Qy	3121	AAATTGAGTAATCTTTGAGTTTGTATGAGTGAAGCTTTATTTGTTTTATCCATGGAAGA	3180
Db	3121	AAATTGAGTAATCTTTGAGTTTGTATGAGTGAAGCTTTATTTGTTTTATCCATGGAAGA	3180
Qy	3181	AATCAACTCAAAATCTGTAGATGAGAAAGTGTGGGAACGAAAGGCTTAGATAGA	3240
Db	3181	AATCAACTCAAAATCTGTAGATGAGAAAGTGTGGGAACGAAAGGCTTAGATAGA	3240
Qy	3241	GAACAGATCTGTAGTATAGTACTTATGGGGGAGCAGGGGGCGATATCCACTGAGTA	3300
Db	3241	GAACAGATCTGTAGTATAGTACTTATGGGGGAGCAGGGGGCGATATCCACTGAGTA	3300
Qy	3301	CAAGTACTTGTGGGAGAGAAATCACTGAGTAAAGTACTTGTGTGGCATGGAGATCCAC	3360
Db	3301	CAAGTACTTGTGGGAGAGAAATCACTGAGTAAAGTACTTGTGTGGCATGGAGATCCAC	3360

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Db 7441 TGTAT 7445

RESULT 3
US-09-354-243B-8
; Sequence 8, Application US/09354243B
; Patent No. 6359117
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fa
; TITLE OF INVENTION: (TIFS)
; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.1
; CURRENT APPLICATION NUMBER: US/09/354,243B

Qy	1981	CCGACGAACATGCTCCCTGATGTTTTTGGCTTTTGGCTCTCTCACTAAACAGGCTCTCCT	2040
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Qy	2041	CTCACTTATCAACTGTGTGACACTTGTGCGATCTCTGATGGCTGTCTTCGCGAAATCTATG	2100
Db	2041	CTCACTTATCAACTGTGTGACACTTGTGCGATCTCTGATGGCTGTCTTCGCGAAATCTATG	2100
Qy	2101	AGTTTTTCCCTTATGCGGACCTTTGGCCGCGACGCTGCGCTCTCTCATTTGCCCTGTGGGCC	2160
Db	2101	AGTTTTTCCCTTATGCGGACCTTTGGCCGCGACGCTGCGCTCTCTCATTTGCCCTGTGGGCC	2160
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Db	2161	CAGAGCGCAATGCGCTGCCGCTCAACACCGGTGCAAGCTTGAAGTGTCCAACTTCCAG	2220
Qy	2221	CAGCGGTACATCGTCAACCGCACCTTTATGCTGCGCCAAAGAGGTACAGCTGCATCTCTTT	2280
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Db	2821	CTAAAGATCAGTGTCTTCTGATGAAAGAGGTGCTCAACTTCAACCTGGAAGAGCTTCTGC	2880
Qy	2881	TCCCCCACTCAGACAGGTTCCAGCCCTACATGCAAGGAGGTGTAACCTTCTGACCAAAAC	2940
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Qy	2941	TCAGCAATCAGCTCAGCTCTGTGTAACTCTGACTCTGGCTACCTATGCTCTCTCTCTT	3000
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Qy	3001	CCTCTTCTATTTCCAGTAAAGAACCCGAGGTCTGCGCTCTCTCTCTTCAAGAGTGAGGA	3060
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Qy	3121	AATTGAGTAATATCTTTGAGTTTGTATGAGTGAAGCTTTATTTGTTTTATCCATGGAAGA	3180
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Db	3901	TCTGTTAGTGTCTGCTTTTATTTTGAGCACATCAGCGGTGACGACCAATCCAG	3960
Qy	3961	AAGAAATGTCAAGAGGCTGAAGGAGACAGTGAAGAGGTACTATTGGCAAGCCAAATACT	4020
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Qy	4021	AAGCAATTCAGTAGGAGAGCTGGGATTTCTTCTGCTTCCAGTCCCTTCTACTTTG	4080
Db	4021	AAGCAATTCAGTAGGAGAGCTGGGATTTCTTCTGCTTCCAGTCCCTTCTACTTTG	4080
Qy	4081	TAAATTTTATTTTCACTTGTCTACTTCTGCTCAATCTAGCTGACCTGTATC	4140
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[illegible][illegible]

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RESULT 6
US-09-354-243B-29
; Sequence 29, Application US/09354243B
; Patent No. 6359117
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louned, Jamila
; TITLE OF INVENTION: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fa
; TITLE OF INVENTION: (Title)
; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.1
; CURRENT APPLICATION NUMBER: US/09/354,243B
; CURRENT FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 29
; LENGTH: 5935
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-09-354-243B-29

Query Match 57.0%; Score 4245.2; DB 3; Length 5935;
Best Local Similarity 88.3%; Pred. No. 0;
Matches 5039; Conservative 0; Mismatches 178; Indels 487; Gaps 20;

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Db 1612 ATATCCACTGAGTACAAGTACTTGTGGGAGAGAAATCCACTGAGTACAAGTACTTGT- - 1669
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QY 3347 GCATGGAGATCCACTGAGTACAAAGTACTTGTGGGGGAGGGAATGGCACAGAGCAAAAGT 3406
Db 1670 -----GGGGGAAGAAATGGCACAGAGCAAAAGT 1697
QY 3407 TGAAGGGA---AGGAAGATGGAGAGCCTCATGTTGGGGGTGTGAAAGGTCACTCC-TT 3462
Db 1698 TGAAGGGAAGAGAGATGGAGAGCCTCAATGTTGGGGGTGTGAAAGGTCACTCCTTT 1757
QY 3463 TTCCATGTGTGATGGAGAGTTTAAGAAAAACCAAGTGTGTGAGTTTGATGTCTTTCAGACACCCC 3522
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Db 1818 AA-----CTATGGCAGACTGTGGAGACCTGGCAATTTAGGGAA 1855
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Db 1916 ATGAGGTTAAGCTCAGGTTTCGTTTCTACCGTTCTTGCTACTGTTGGAAACTTCAGTAGG 1975
QY 3703 ATTCCCAAGAGAGAGAGACTTCTCTGTAAGGAGGGAACCTGGATTCAGTGTCTCTAG 3762
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QY 3763 AGAACGAAATAGCTCAGAGAACTTAGGTCAACGTGAAATCTAGGTCAACGCGGCAAAA 3822
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QY 3823 TGACTGAACCGCTCTATTTCAGGTGAACGGTCAAGTGCCTCAGATATCTAGGTATGG 3882
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QY 4003 TTGGCAAGCCACAATATAAGACCAATTCAGTAGGAGAGTGGGATTTCTTTCTCTGCTC 4062
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Qy 5610 TCTGGGAAGGCAGCAAG---TGAGAGGGAATGGAAAGGGAAGAAAACAGAAATGTAGAGGA 5666
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Qy 5723 AGTGGATTAGGT-GATTGCGAGGGGACTTGTCTTGGCCATTTGAATCTGGGTTTTTGTCTC 5781
Db 4013 GGTGGATTAGGTGATCGCAGAAGGACTTGTCTTGGCCATTTGAATCTGGGTTTTTGTCTC 4072
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Qy 7245 GTTG 7248
Db 5932 TTG 5935

RESULT 7
US-09-949-016-17185
; Sequence 17185, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17185
; LENGTH: 8888
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-17185

Query Match 14.5%; Score 1081; DB 3; Length 8888;
Best Local Similarity 56.7%; Pred. No. 3e-263;
Matches 3680; Conservative 0; Mismatches 2300; Indels 509; Gaps 71;

QY	1080	TATCCATCTATATAGTATGATGTTAGGCTCAATTTAAAAATAATATTTGAGACTTATG	1139
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QY	1140	-----CTTCACAGTAATGTCAGAGAAATGAGCAATGATATGATATTTATTTT	1193
DB	1211	AGAAGTGTAGAAATTTAGGTAATAATTTTAAGATGAATATATCCATGTTCTTTATTTT	1270
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DB	1271	AAAAAAGTTTACATGTTAAGAAAAAAGGAGATCAGATTTTCAGCATTAGTATTTACAA	1330
QY	1249	CTTAACTTGACCTGGCTATGATTTCAACCTTTGTTATTTGATTCATCCATAAC-AGTCTC	1307
DB	1331	CTTAAAGTTGATATTGATTAATAATCAATTAATAACAATTTTAAGATATATTTACTTCTGC	1390
QY	1308	TGAACAGAACATCTGTGCAATGGAGCTGTGAAGAAAGCCAAATCTTTATTTAAAAA	1367
DB	1391	TTAAATTTGTTATGATCACTTAAAAAATAGTTCCAAAAAGGGAAGAAAAACAATATTAGATTA	1450
QY	1368	AAAAAACAGCTAGTTATAGTTTAGGATTCATATCTAAAA-----AAAATAGA	1417
DB	1451	GCCAGACAGTATTTTGAACATAGTCTGGTTTAGAATTCAGCATGTTTAAAAATGA	1510
QY	1418	GATATAATTTTAAAAATGGAATAATCTCAAGTTTTCATTATGGCTTATTTCAAAG	1477
DB	1511	GATAAAATTTTAAATAAGG-AAATGATCTGTAGCTGTCATTACCATTTACTTTAAAG	1569
QY	1478	CACAGAAATATAGACAGGCTCTTTTATTTCTGGTCACTCTTAAAGAGATAAGAACTAT	1537
DB	1570	CAGAGGATATAGGACATGGGCTCTTTTCTGATCACTCCATCCCAATGAGATAAGAACTAT	1629
QY	1538	GAAGTTGGTGGGAAATGAGTCGTCACCAAAAGCTGATCTCAATAGCTACGGGAGATCA	1597
DB	1630	AAAGCTGGTAGGAAATGAGTCGTCACCAAAAGCTGATCTCAATAGCTACGTCATAGGAGATCA	1689
QY	1598	AAGCTGCTCTACTCAATCAGAA--TCTACTACGCGCAAGCCATGGCTTTCTTTGAAAA--	1654
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QY	1772	TGGCTCTCTATGTTGGTGTAGGTACTTCTCAGAGAGCAGGACTGGAATTTAGATAATGCT	1831
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QY	1832	GATGTCATATCATTTCAATATACAAAAAACCCCTGTGTCCCATGGCTATAAAGCAGC	1891
DB	1926	GATGTCATATTTTCAAT--TAAAAAAGTCAGTATCTCTGGGGCTATAAAGCAGC	1983
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DB	1984	AGCTTCTACCTTCCCGTCACAAGCAGAACTTTTCAAGAACAGGTAAGCGTTTCGCAAACT	2043
QY	1952	CAGACAA--TCATCTGTTGGTACCATGCTACCCGAGGACATGCTCCCTCGATGTTTTT	2009
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DB	2212	CAGCTGCTGCTTCTCTCTGCGCTCTTGGTACAGGAGGAGCAGCTGCGGCCATCAGCTC	2271
QY	2190	CGGTCACAGCTTGTGAGTGTCCAACTTCCAGACAGCGTATCATCGTCAACCGACCTTTAT	2249
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QY	2250	GCTGGCCAAAGGAGTACAGTGCATCTCTTTCTCT-----C	2285
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QY	2286	CATACCGCTTGCATTTTCTCTGAAGCACTTGAAGCACTTCTTATGGGCGCTTTATCTCC	2345
DB	2392	AAATAGTCTTAACTTTTCTTCTCAGAGCATCTCTAAGAGCTTTAGGAACCCACTGTTAT	2451
QY	2346	GCAGTCTCACTACCTATGTTTTCTCTCTTTAGAGACTCTTTTAAAGCACTGGCTCTTTT	2405
DB	2452	CCCTGAGG--GTAGATAAATTTTCTGTTTTTCTGTTTTTCTGAGACTCTTTGGAAATCTGGCTTTT	2509
QY	2406	TCTATTTCTATTTTCAAGGCTCTCAGGACCATTTCTCTATCTTGGCTTCTCAGGACATATAC	2465
DB	2510	TTTTTTTCTTGAATCTTCTC-----TTCCATTTTGGCTTTATGATACATATGA	2559
QY	2466	TGAATTTTATCTACAGAGGCGCATTTAGAAAGCCACCCAGCACTGCAATCTTTCC---A	2522
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QY	2523	TTTTCTGCTGCTCTTCTGAACTCATCTCTCTGCTACTC-----	2565
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QY	2566	-----CTGAGACCCACTGCGGACATACATCTCTACTTACAGGCTTTTCTTCCATCTC	2617
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DB	2740	CTCAATGTCCAGACCTTAGTCTTTTCTCTCTCCAGGCTAGCTTGGCTGATAACAACA	2799
QY	2677	CAGACGTCGGCTCATCGGGAGAAATGTTCCGAGGAGTCACTGTAAGTCTCTCAGCTGTG	2736
DB	2800	CAGACGTTCTGCTCATTTGGGGAGAAATGTTTCCACGAGGTCAAGTAAAGTACAGTTGTG	2859

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Db 4998 GGAATGATAGGAGCAGTGAAGTGAAGCTCTT-GCAAGCAGGTACAACTAAATACCTCAG 5056
Qy 4954 AAACGAAAGGCTCCGGTGTGATGGAATATACGTAAGA-----ATATACCCCTTA 5003
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Qy 5292 CCCTTTAAATGCCTATTAATCACTTTTCAGTCA---ACTTTGACTTTTATACCAATGCTGC 5348
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Qy 5349 ACATGAAGAGTTTGTAGGCCGCTCTCATGGCTCTGGGAAAGACCAATAGGGNAGG 5408
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Qy 5463 -----GACCACCAACAGTGTGTTAAGTAGGAACAGTCCAGGGTGGGCTCAT 5506
Db 5573 GGTTTTGGGAGGCATTAATCCCTCTCGTTGGGGTAAAGCAGAAAGCAGAGTGGTAGT 5632
Qy 5507 GTAATAGAAATGGAACAGAGCGAGGAAGATAGCTACAAAGTTTCATAGGGTCC-GGAGT 5565
Db 5633 AAAAT-GCATGACAGACAGTAGGGGACGATAAACTTTTAAATTTCTTTATAGTCTTGGAGT 5691
Qy 5566 CTTTAAAGATACAAAATAGCTGC--TTGGGCTTCTATACAAAGGAAGTCTGGGAAGGCAGC 5623
Db 5692 CTTTGAGATAGAAAGAAATATCTTTTGGCTTATGTCTAAAGAGATGGAAGAGTGAA 5751
Qy 5624 AAGTGAAGGGAATGGAAGGGAAGAAACAGAAATGTAGAGGACTTGAACAGCTTACAAAT 5683
Db 5752 AGGCGGAAGAAAGCAGGAA-----AAGGAAGAACCATGTATTATATAGAGGA 5799
Qy 5684 CTTTACCAACAGATTTTCTTGAAACAATCTAGAGGTTAGTGAATAGTGAATGCGAGG 5743
Db 5800 CAATGGTGACAGGTTTCTTGAATTAATGCAAAATATGATAGATTAGAGGAATTTTCAGT 5859
Qy 5744 GGGACTTGTCTTGCATTTGCAATCTGGTGTTTTGTCTCTCCATTTGAGGTTGAAAGCGTCA 5803
Db 5860 AGGGAATGCTTTTCACTTGAATTTGGGTTTTCTCT-----TCGATTAAGTTTGGGATCTCTCA 5916
Qy 5804 CCCTTTTACCTCGAATGGAGGAGGAAGAGGGGTGTTATGACTCTCTTACCTCGAGTTT 5863
Db 5917 TCTGCAATTTGACT-----TGGAGAGAGAAAGAAATGAAATGTTAGGACCTATATCTGGTTTC 5972
Qy 5864 TACTAGTTTACGCAATGGAAACAGACACTCGGGAGCTCTCTTGACAAAAAAATGGAAC 5923
Db 5973 TAITAACTAAAGCAAGTGGAAAGAGACTTATTGTGTAATTTTTCACCAAAAGTGAAGAACTT 6032

Qy 5924 CTGTTGTTTGTCTGTGTTGTTGTTTGTGTTTAAAGAAAGCACAGGCAAAAGCCCGACCATGG 5983
Db 6033 TTCTTTTACTGTTTGTCAAAAAGGTGGAATAAGAAAAGCCTTAATGTTATGTTGAATAC 6092
Qy 5984 GTTGAATGGGGTCTTTGAGTCAAGGCTTTTGTAGTTGAGCACTCATCAATAGTT----- 6037
Db 6093 ATGGTTCAAAGTCAATTTGAGTAGAGATGTTTAAATCAGGAGTGTCCAATCATTTGGCTT 6152
Qy 6038 -----GATCATGTCAGGTGGAGGCTACCTGTGAGCCGAGCCCTG 6079
Db 6153 CCCTGACACCTTGAAGAAATTTGTTGTAACACATATAAATACAAAGCAATAGCTG 6212
Qy 6080 CTGGCTTCGCACTTAACTCTCCAGGTCTCAGTATCATCTTCTGCTACTCTTACAGCACTTA 6139
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Qy 6140 GGAGTTGAGCAACCTTTTTC-----AAC 6166
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Qy 6227 A-----TCTATGTGTGCAATTTG 6244
Db 6393 ATGGTGGCACTCGGATCCCCAGATCCCAGCTCACCTTCAGTCTCTTCTGCTGTTA 6452
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Qy 6305 TAATATAGGTAGATGCTGTGGTGTCTTAGTGCAGAAAGGCATGATTTTAAAGTCTTGG 6364
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Qy 6365 GCAAAATCATATATCTCATGCTTAAATAATCATTTATGTTGATTATTAATCTTTTATAGAA 6424
Db 6572 GCAAAATCATACATACTATAAGGATA-----TTACTATGAATGTTTACAAAT 6619
Qy 6425 GGCTGATCTGTTGTTTGGTGTCTCAGCAAGCAATGTCCAGCTCTTTCTAAGTGTAC 6484
Db 6620 GCTTAAACTCGGTTTCTGTCTCCATCAACTAATCTTGCAATTTCT---AATTTGTCA 6676
Qy 6485 CACTTTAGAAAATGCTACCTGTCTCAAAATTTGTTGTTATTTATTTTTCATAGCTTGA 6544
Db 6677 CTTTGAAGAACATGGCATTAATGCTCAAAATPACTTTTGCAATCTTATTTTACAGCTTGA 6736
Qy 6545 GAGAGTGGAGAGATCAAGCGATTGGGGAACCTGGACCTGCTGTTTATGTTCTCTGAGAAAT 6604
Db 6737 GAGAGTGGAGAGATCAAGCAATTGGAGAACTGGAATTTGCTGTTATGTTCTCTGAGAAAT 6796
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Qy 6665 AAGAAACAATAAGATCCCTGAATGCACTTTTTT-----ACTAAAGAAAGTGAAGAGTAAAC 6720
Db 6857 AATAACAATTAGATGCCCAAGCGATTTTTTTTAAACAAAGAGAGATGGGAAGCCAA 6916
Qy 6721 GTCATCATCATTTAGAAAGATTTTCAATGAAAACCTGGCTCAGTTTGAATAAGAAAATAGTGT 6780
Db 6917 CTCATCATGATGGTGGATTTCCAAATGAACCCCTGCGTTAGTTAGTACAAAGAAACCAATG 6976
Qy 6781 CAA--GTGTCCATGAGACAG--AGGTAGACTTTGATAACCAAAAGATTCATTGACAATA 6837
Db 6977 CCACCTTTTGTATTAAGACCAAGAGTAGACTTTTCTTAAGCATAGATATTTTATGATAACA 7036
Qy 6838 TTTTATGTGCACTGATG-----ATACAACAGAAAAATAATGTAATTTTAAATAATTTT-- 6891
Db 7037 TTTTCAATGTAACCTGGTGTCTATACAGAAAAACAATTTATTTTAAATAATTTGCTTT 7096

Qy 3298 GTCAAGTACTTGTGGGAGAGAAATCCACTGAGTCAAGTACTTGTGTGGCATGGAGATC 3357
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Qy 3358 CACTGAGTACAAGTACTTGTGGGGGAGGAATGGCACAGACAAAGTTGAAGGGNAGG 3417
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Qy 3418 AAGATGGAGAGGCTCATGCTGTGGGGTGTGAAGGTCACTCTCTTTTCCATGTGATGGAG 3477
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Qy 3655 TCAGGTTTCGTTCT-----ACGGTCTGTCTACTGTGGTGAAC 3693
Db 1641 TGAGGTTTTATTCCTTACAGAAATTTGCATAAACTACTCCGCTCTTTCCACAAATGCAAAC 1700
Qy 3694 TTCAGTAGGATTTCCCAAGACAGGACAGCTCTTCTGTGAAGGGAGGACCTGATTTCA 3753
Db 1701 CTCAGTAGGATTTCCCAAGATGAAGAGAGGTCTCTTGTGAAGGAAGTGACTGGATCTG 1760
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Db 2177 TCCAAATCTTGCAAAATTTGATGAATTTAGAACTGGTTGGGATCTTAGCTGTCTAGTCA 2236
Qy 4228 ATGAGCACTTGTCTGGAGAGATGGCTGTGTGACAGATCAATGCTTAGAAGA CAGCATCCCTG 4287
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Db 2887 GTGACTCACCCCAAAACCGAGGAATGATTTAGGAGCAGTCAAAAGTCAACGCTCTT--GCAAG 2945
Qy 4933 TGGGTGTGCTTAAGTAAATCAGAAACAGGAGGCTCCGGTTGTGAGGAATTAATCAGTAAGA-- 4991
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Qy 5101 GTGCTCTGCCAGTTCTGT--TAGAGGTTTGTGTACCTTGACACCTGGGCTTGGATGTTA 5158
Db 3126 TTGTGAAGCCCACTTCTTGTGTTATAGAACTATATCTAGACATGGAAGGCTGAATGTTA 3185
Qy 5159 GCATGCCAAAGGCACACACTTCTGAATGCTGTGTAAGGTTTATTTATTCATTTACT-- 5215
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Qy 5783 CCATTTAGGTTGAAGCGTCAACCTTTTACCTTCGAATGGAGAGGAGAAAGAGGGGTGT 5842
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Qy 5963 AGGCAAGCCCGACCAATGGGTTGAATGTTGGTCTTTTGTAGTCAAGGCTTTTGTAGTTGAG 6022
Db 3982 CCTTAATGATTTGGTGAATACATGTTCAAAGTCAATTTGAGTAGAGATGTTTTAAATCAG 4041
Qy 6023 CACTCATCAATAGTT-----GATCATGTCTCAGGTGGAGGC 6058
Db 4042 GAGTGTCCAATCAATTTGGCTTCCCTGGACCACTTGAAAGAAATTTGCTTGTGTACACAT 4101
Qy 6059 TACCTGTCCAGCCGAGCCCTGCTGGCTTCGCACTTAACATCTCCAGGTCTCAGTATCACT 6118
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Qy 6119 TCCTGTCTACTAGCACAGTTAGGAGTTAGCAAAACCTTTTTTTTCC-----6163
Db 4162 TAAGAAAGTTTATGAATTTCTGTTAGGTTGCAITCAAAGCTGTCTCGGGCCATGTGGGC 4221
Qy 6164 -----AACCCCACTTAAATTTAATTTGACAAAGACTGTGTAATTTG 6205
Db 4222 CTGTGGGCTGCAGGTTGGACAAGCTCTTTATAAGTAATCTGTCTATAGATAGTTTGGAGC 4281
Qy 6206 TGGGATACAGTGTGATTAATGA-----6227
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Qy 6228 ----TCTATGTGTGCAATTTGCAAGTTCAATATAGATAGATTAATATAGGCCCATCAACAGC 6283
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Db 4509 TACTATGAATGTTTTTAAATGTTTAAACTCGGTTTCTGTCTCCATCAACCTTAATCTTG 4568
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RESULT 9

US-09-354-243B-25
; Sequence 25, Application US/09354243B
; Patent No. 6359117
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renauld, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fa
; TITLE OF INVENTION: (TfPs)
; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.1
; CURRENT APPLICATION NUMBER: US/09/354,243B
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 25
; LENGTH: 4797
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-09-354-243B-25

Query Match 9.2%; Score 686; DB 3; Length 4797;
Best Local Similarity 53.8%; Pred. No. 3.6e-163;
Matches 2644; Conservative 0; Mismatches 1875; Indels 393; Gaps 44;

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Db 29 CTCCTTCCCAGTCACCAGTTGCTCGAGTTAGAAATGCTCGCAATGGCCGCCCTGCAGAA 88
Qy 2094 ATCTATCAGTTTTTCCCTTATGGGACTTTTGGCCGCGAGCTGCTGCTCTCTCATTTGCCCT 2153
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Qy 5448 CAGAGCTCCCGGAAGACCA-----CCACAGTGTTAAGTAGG 5485
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Qy 5546 AGTTTCATAGGGTC-CGGAGTCTTAAGATACAAAATAGCTGC--TTGGGCTTTCATAACA 5602
Db 3581 AATCTTTTATAGTCTTTGGAGTCTTTGAGATAGAAAAGATATCTTTTGGCCTTATGTCA 3640
Qy 5603 AAGGAAGTCTGGGAAGCCAGCAAGTGAAGGGGAAATGGAAGGGGAAAAACAGAAATGTAG 5662
Db 3641 AAAGAAGTATGGAAGG-----TGAAAGGCGGGAAGAAAGCAGGAAAAAGGAAG 3688
Qy 5663 AGGACTTGAACAGCTACAAATCTCTACAGAGCAATTTTCTTTGGAAACAATCTAGAAGGT 5722
Db 3689 AACCATGTATATATAGAGGACAAATGCTGACAAAGTTTTTCTTTGAATATATGCAAAATG 3748
Qy 5723 AGTGGATTAGGTGATTTGAGGGGACTTGTCTTTGCCATTTGAATCTGGGTTTTTGTCTCT 5782
Db 3749 ATAGATTTAGAGGAATTTTCAGTAGGGAATGCTTTTCACTTGAATTTGGGTTTCTCT--T 3805
Qy 5783 CCATTGAGGTTGAAGCGTCACCCCTTTTACCCCTCGAATGGAGGAGGAAAGAGGGGTGT 5842
Db 3806 CGATTAAAGTTTGGATCCCTCATCTGCATTTGACT---TGGAGAGAGAAAGATGAATGT 3861
Qy 5843 TATGACTCTCTACTCGAGTTTTTACTAGTTTACGCAATGGAACAGACACTCGGAGCTCCT 5902
Db 3862 TAGGACCTATATCTGGTTTTCTATTAACATAAGCAAGTGGAAAAGACTTATTTGGTATTT 3921
Qy 5903 CTTGACAAAAAAATGGAAACCTGTTGTTGTCTGTTTGTCTTTTGTGTTAAGAAAGCAC 5962
Db 3922 TTCCCAAAAGTGAAACCTTTTCTTTTACTGTTTGTCAAAAAGGTGGAATAGAAAAG 3981
Qy 5963 AGCAAGCCCGACCATGGGTTGAATGTGGGCTTTTGAAGTCAAGGCTTTTGAAGTTGAG 6022
Db 3982 CCTTATGATTTGGTGAATACATGTTCAAAGTCAITTTGAGTAGAGATGTTTTAAATCAG 4041
Qy 6023 CACTCATCAATAGTT-----GATCATGTCAGGTGGAGGGC 6058
Db 4042 GAGTGTCCAATCATTTGGCTTCCCTGGACCACTTGAAGAATTTGTCTTGTATACACAT 4101
Qy 6059 TACTGTGAGCGGAGCCCTGCTGGCTTCCACTTAACATCTCCAGTCTCAGTATCACT 6118
Db 4102 AAAATACAGAAACAATAGCTGATGAGCTAAAAAGTCCATGCATAAATCTCATACTGTTT 4161
Qy 6119 TCCTGCTACTTTAGCACAGTTAGGAGTTAGCAAAACCTTTTTTTTCC----- 6163
Db 4162 TAAGAAAGTTTATGAATTTCTGTTAGGGTGAATTTCAAAGCTGCTCTGGCCATCTGGGC 4221
Qy 6164 -----AACCCCACTAAAAATTTAATGACAAAAGACTGTGTAATTTG 6205
Db 4222 CTGTGGGCTGCAGGTTGGACAAGCTCCTTTATAAGTAATCTGTCTATAGATAGTTTTGGAGC 4281
Qy 6206 TGGGATACAGTGTCAATTTGA----- 6227
Db 4282 TGCAAAACAGGCCCAAGGCATAATGGGTGGCACTCGGGATCCCCCAGATCCCGAGCTCACT 4341
Qy 6228 ----TCTATGTTGTGCTATTTGCAAGGTTTCAATAAGATAGATTAATAGGCCCATCAACAGC 6283
Db 4342 TCAGTCTCTCTGCTCTGGTTAAGNAGGGTGGTCAACTCTCTGCCAGCTTTTAAACAGC 4401
Qy 6284 TTTATGGGTGTAAATGCAAGTAAATATAGGTAGATGCTGTGGTGTCTTTAGGTGACAGAA 6343
Db 4402 TTCATTAGTGTGAGGTGCACCTGAAAATGATGCTGCTGCTGGTGGGCT--CTCAGTCCAGAGA 4460
Qy 6344 GGCATGATTTTAAAGTCTTTGGGCAAAATCATATATATCTCATGCTAAAAAATACATTATGTT 6403
Db 4461 GCCGTCAATTTAAAGCTCTTTGGGCAAAATCATACAATACTTAAAGGGATA-----T 4508
Qy 6404 GATTATTAATCTTTTAGAGAGGCTGATACCTTGTGTTTTTGTGCTCAGCAAGCAAAATGTCA 6463
Db 4509 TACTATGAATGTTTTACAAATGCTTAAACTCGGTTTCTGTCTCCCACTCAACTAATCTTG 4568
Qy 6464 CCAGCTCTTTTAACTAGGTACCACTTTAGAAAATGCTACCTGTGCTCAAAATGTTGTTGA 6523
Db 4569 CAATTTCT---AATTTGTTCACTTTTAGAAAAACATGGCAATAAATGCTCAAAATCTTTTGCA 4625

Qy	6524	TTCCTATTTCATAGCTTGGAGAGGTGGAGAGATCAAGCGAATTGGGAACTGGACCTG	6583
Dδ	4626	TTCCTATTTCATCAGCTTGGAGAGGTGGAGAGATCAAGCAATTGCAGAACTCGATTTC	4685
Qy	6584	CTGTTTATGTCCTGAGAAATGCTTGCGTCTGAGCGAGAAGACTAGAAAAACGAACAAC	6643
Dδ	4686	CTGTTTATGTCCTGAGAAATGCCGTCATTTGACCAGACGAAGCTGAAAATAAGTAATAAC	4745
Qy	6644	TGCTCCCTCTCGCTCTCTAAAAAGAAACAATAAGATCCCTGAATGGACTTTTT	6695
Dδ	4746	TAACCCGCCCTTTCCCTGCTAGAAATAACAATTAGATGCCCAAGACGATTTTT	4797

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RESULT 10
; Sequence 7, Application US/09178973B
US-09-178-973B-7
; Patent No. 6274710
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Factors and Uses Thereof
; TITLE OF INVENTION: (Tifs)
; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543
; CURRENT APPLICATION NUMBER: US/09/178,973B
; CURRENT FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 17
; SEQ ID NO 7
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-178-973B-7

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Query Match	8.1%;	Score 601.4;	DB 3;	Length 1119;
Best Local Similarity	99.8%;	Pred. No. 4.9e-142;		
Matches 602;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;
Qy	6535	ATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGGACCTGCTGTTTATGTC	6594	
Db	510	AAAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGGACCTGCTGTTTATGTC	569	
Qy	6595	TCCTGAGAAATGCTTTCGCTCTGAGCGGAAGAAGCTAGAAAAACGAAGAACCTGCTCCTTCCT	6654	
Db	570	TCGAGAAATGCTTTCGCTCTGAGCGGAAGAAGCTAGAAAAACGAAGAACCTGCTCCTTCCT	629	
Qy	6655	GCCTTCTAAAAAGAAACAATAAGATCCCTGAATGGACCTTTTTTACTAAAGGAAAGTGAGAA	6714	
Db	630	GCCTTCTAAAAAGAAACAATAAGATCCCTGAATGGACCTTTTTTACTAAAGGAAAGTGAGAA	689	
Qy	6715	GCTAACGTCGCATCATATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA	6774	
Db	690	GCTAACGTCGCATCATATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA	749	
Qy	6775	TAGTGTCAAGTTGTTCATGTAGACAAGAGGTAGACTTGAATACCAAGAAGATTTCATTGACA	6834	
Db	750	TAGTGTCAAGTTGTTCATGTAGACACAGAGGTAGACTTGAATACCAAGAAGATTTCATTGACA	809	
Qy	6835	ATATTTTATTTGTCACCTGATGATACAAACAGAAAAATATGTACTTTTAAAAAATGTTTGAA	6894	
Db	810	ATATTTTATTTGTCACCTGATGATACAAACAGAAAAATATGTACTTTTAAAAAATGTTTGAA	869	
Qy	6895	AGGAGGTTACCTCTCATTTCTTTAGAAAAAGCTTATGTAACTTCATTTCCCATATCCAA	6954	
Db	870	AGGAGGTTACCTCTCATTTCTTTAGAAAAAGCTTATGTAACTTCATTTCCCATATCCAA	929	
Qy	6955	TAITTTTATATGTAAAGTTTATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA	7014	
Db	930	TAITTTTATATGTAAAGTTTATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA	989	
Qy	7015	ATATGGATTTTATTTATGAAACATTATCTGCTATTGTATTTTAGTATAGGCAAAATATA	7074	

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Db      990  ATATGGATTTATTTATAGAAACATTATCTCCTATTGNTATATTTAGTATAAGGCAATAATA 1049
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Qy      7075  TTTATGACAATAACTATGGAACAACAGATATCTTTAGGCTTTTAAATAAACACATGGATATCAT 7134
          |||||
Db      1050  TTTATGACAATAACTATGGAACAACAGATATCTTTAGGCTTTTAAATAAACACATGGATATCAT 1109
          |||||
Qy      7135  AAA 7137
          ||||
Db      1110  AAA 1112

RESULT 11
US-09-419-568F--7
; Sequence 7, Application US/09419568F
; Patent No. 6331613
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Indu
; TITLE OF INVENTION: (Tifs) The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/09/419,568F
; PRIORITY FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIORITY FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIORITY FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 7
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; US-09-419-568F--7

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Query Match	8.1%; Score 601.4; DB 3; Length 1119;
Best Local Similarity	99.8%; Pred. No. 4.9e-142;
Matches 602; Conservative 0; Mismatches 1; Indels 0; Gaps 0;	
QY	6535 ATAGCTTGGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGGACCTGCTGTTTATGTC 6594
DB	
QY	510 AAAGCTTGGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGGACCTGCTGTTTATGTC 569
DB	
QY	6595 TCTGAGAAATGCTTTCCTCTGAGCGAAGAAAGCTAGAAAAACGAAAGCTGCTCCTTCCT 6654
DB	
QY	570 TCTGAGAAATGCTTTCCTCTGAGCGAAGAAAGCTAGAAAAACGAAAGCTGCTCCTTCCT 629
DB	
QY	6655 GCCTTCTAAAAAGAACAAATTAAGATCCCTGAATGGACCTTTTTTACTAAAGGAAAGTGAGAA 6714
DB	
QY	630 GCCTTCTAAAAAGAACAAATTAAGATCCCTGAATGGACCTTTTTTACTAAAGGAAAGTGAGAA 689
DB	
QY	6715 GCTAACGTCCTCATCATTAAGAGATTTACATGAACCTGGCTCAGTTCGAAAGAAAGAAA 6774
DB	
QY	690 GCTAACGTCCTCATCATTAAGAGATTTACATGAACCTGGCTCAGTTCGAAAGAAAGAAA 749
DB	
QY	6775 TAGTGTCAAAGTTGTCTCATGATGACACAGAGGTAGACTTGTAAACCAACAAGAGATTCATTGACA 6834
DB	
QY	750 TAGTGTCAAAGTTGTCTCATGATGACACAGAGGTAGACTTGTAAACCAACAAGAGATTCATTGACA 809
DB	
QY	6835 ATATTTTATTGTCTCATGATGATCAACACAGAAAAAATAATGTACTTTTAAAAAATGTTTGA 6894
DB	
QY	810 ATATTTTATTGTCTCATGATGATCAACACAGAAAAAATAATGTACTTTTAAAAAATGTTTGA 869
DB	
QY	6895 AGGAGGTACCTCTCATTCCTTTAGAAAAAGCTTATGTAACTTCATTTCATATCCAA 6954
DB	
QY	870 AGGAGGTACCTCTCATTCCTTTAGAAAAAGCTTATGTAACTTCATTTCATATCCAA 929
DB	
QY	6955 TATTTTATATATGTAAGTTTATTTATTAAGATACATTTTATTTATGTGTCAGTTTATTA 7014
DB	
QY	930 TATTTTATATATGTAAGTTTATTTATTAAGATACATTTTATTTATGTGTCAGTTTATTA 989
DB	
QY	7015 ATATGGATTTTATTTATAGAAACAATTCTGCTATTGTATTTATGTATTAAGGCAAAATAA 7074
DB	

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Db 990 ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTAGTATAAGCAAAATAATA 1049
Qy 7075 TTTATGACAAATACTATGGAAACAAGATATCTTAGGCTTTAAATAAACAATGGATATCAT 7134
Db 1050 TTTATGACAAATACTATGGAAACAAGATATCTTAGGCTTTAAATAAACAATGGATATCAT 1109
Qy 7135 AAA 7137
Db 1110 AAA 1112

RESULT 12
US-09-354-243B-7
; Sequence 7, Application US/09354243B
; Patent No. 6359117
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Peptides
; TITLE OF INVENTION: (TIPEs)
; FILE REFERENCE: LUD 5543.1
; CURRENT APPLICATION NUMBER: US/09/354,243B
; PRIOR FILING DATE: 1999-07-16
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 7
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-354-243B-7

Query Match 8.1%; Score 601.4; DB 3; Length 1119;
Best Local Similarity 99.8%; Pred. No. 4.9e-142;
Matches 602; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 6535 ATAGCTTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGGACCTGCTGTTTATGTC 6594
Db 510 AAAGCTTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGGACCTGCTGTTTATGTC 569
Qy 6595 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAGAACTGCTCTTCTCT 6654
Db 570 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAGAACTGCTCTTCTCT 629
Qy 6655 GCCTTCTTAAAGAAACAATAAGATCCCTGAAATGGAATTTTCTAAAGGAAAGTGAGAA 6714
Db 630 GCCTTCTTAAAGAAACAATAAGATCCCTGAAATGGAATTTTCTAAAGGAAAGTGAGAA 689
Qy 6715 GCTAACGTCCTCATCATCTTTAGAAGATTTCAATGAAACCTGGCTCAGTTGAAAGAAAA 6774
Db 690 GCTAACGTCCTCATCATCTTTAGAAGATTTCAATGAAACCTGGCTCAGTTGAAAGAAAA 749
Qy 6775 TAGTGTCAAGTTGTCCATGAGACACAGAGGTAGACTTGAATACCAAGATTTCAATGACA 6834
Db 750 TAGTGTCAAGTTGTCCATGAGACACAGAGGTAGACTTGAATACCAAGATTTCAATGACA 809
Qy 6835 ATATTTTATTCTCACTGATGATACAAACAGAAAAATAATGTACTTTTAAAAAAATGTTTGA 6894
Db 810 ATATTTTATTCTCACTGATGATACAAACAGAAAAATAATGTACTTTTAAAAAAATGTTTGA 869
Qy 6895 AGGAGGTTACCTCTCATTTCTTTAGAAAAAAGCTTATGTAACCTTCCATATCCAA 6954
Db 870 AGGAGGTTACCTCTCATTTCTTTAGAAAAAAGCTTATGTAACCTTCCATATCCAA 929
Qy 6955 TATTTTATATGTAAGTTTATTTATATAGTATACATTTTATTTATGTCAGTTTATTA 7014
Db 930 TATTTTATATGTAAGTTTATTTTATATAGTATACATTTTATTTATGTCAGTTTATTA 989
Qy 7015 ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTAGTATAAGCAAAATAATA 7074
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Db 990 ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTAGTATAAGCAAAATAATA 1049
Qy 7075 TTTATGACAAATACTATGGAAACAAGATATCTTAGGCTTTAAATAAACAATGGATATCAT 7134
Db 1050 TTTATGACAAATACTATGGAAACAAGATATCTTAGGCTTTAAATAAACAATGGATATCAT 1109
Qy 7135 AAA 7137
Db 1110 AAA 1112

RESULT 13
US-10-084-298-3
; Sequence 3, Application US/10084298
; Patent No. 6939545
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: Pittman, Debra
; APPLICANT: Fouser, Lynette
; APPLICANT: Spaulding, Vikki
; APPLICANT: Xuan, Dejun
; TITLE OF INVENTION: Composition and Method for Treating Inflammatory
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: GI5358 CIP
; CURRENT APPLICATION NUMBER: US/10/084,298
; PRIOR FILING DATE: 2002-09-10
; PRIOR APPLICATION NUMBER: 60/270,823
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/281,353
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: 60/131,473
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/561,811
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1166
; TYPE: DNA
; ORGANISM: Murine
US-10-084-298-3

Query Match 8.0%; Score 598.2; DB 3; Length 1166;
Best Local Similarity 99.5%; Pred. No. 3.3e-141;
Matches 600; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 6535 ATAGCTTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGGACCTGCTGTTTATGTC 6594
Db 533 AAAGCTTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGGACCTGCTGTTTATGTC 592
Qy 6595 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAGAACTGCTCTTCTCT 6654
Db 593 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAGAACTGCTCTTCTCT 652
Qy 6655 GCCTTCTTAAAGAAACAATAAGATCCCTGAAATGGAATTTTCTAAAGGAAAGTGAGAA 6714
Db 653 GCCTTCTTAAAGAAACAATAAGATCCCTGAAATGGAATTTTCTAAAGGAAAGTGAGAA 712
Qy 6715 GCTAACGTCCTCATCATCTTTAGAAGATTTCAATGAAACCTGGCTCAGTTGAAAGAAAA 6774
Db 713 GCTAACGTCCTCATCATCTTTAGAAGATTTCAATGAAACCTGGCTCAGTTGAAAGAAAA 772
Qy 6775 TAGTGTCAAGTTGTCCATGAGACACAGAGGTAGACTTGAATACCAAGATTTCAATGACA 6834
Db 773 TAGTGTCAAGTTGTCCATGAGACACAGAGGTAGACTTGAATACCAAGATTTCAATGACA 832
Qy 6835 ATATTTTATTGTCACCTGATGATACAAACAGAAAAATAATGTACTTTTAAAAAAATGTTTGA 6894
Db 833 ATATTTTATTGTCACCTGATGATACAAACAGAAAAATAATGTACTTTTAAAAAAATGTTTGA 892
Qy 6895 AGGAGGTTACCTCTCATTTCTTTAGAAAAAAGCTTATGTAACCTTCCATATCCAA 6954
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Db 893 AGGAGGTTACTCTCATTCTTTAGAAAAGCTTATGTAACCTTCAATTTCCATAACCAA 952
QY TATTTTATATATGTAAGTTTATTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 7014
Db 953 TATTTTATATGTAAGTTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 1012
QY ATATGGAATTTATTTATAGAAACATTATCTGCTATTGATATTTAGTATATAAGGCAAAATTA 7074
Db 1013 ATATGGAATTTATTTATAGAAACATTATCTGCTATTGATATTTAGTATATAAGGCAAAATTA 1072
QY TTTTATGACATAACTATGGAACCAAGATATCTTAGGCTTTAAATAAACACATGGATATCAT 7134
Db 1073 TTTTATGACATAACTATGGAACCAAGATATCTTAGGCTTTAAATAAACACATGGATATCAT 1132
QY 7135 AAA 7137
Db 1133 AAA 1135

RESULT 14
US-09-178-973B-9
; Sequence 9, Application US/09178973B
; Patent No. 6274710
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; FILE REFERENCE: LUD 5543
; CURRENT APPLICATION NUMBER: US/09/178,973B
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 17
; SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-178-973B-9

Query Match 7.5%; Score 555.2; DB 3; Length 1111;
Best Local Similarity 96.0%; Pred. No. 2.6e-130;
Matches 580; Conservative 0; Mismatches 23; Indels 1; Gaps 1;
QY 6535 ATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGACCTGCTGTTTATGTC 6594
Db 508 AAAGCTTGGAGAGAGCGGAGAGATCAAGCGATCGGGGAACCTGACCTGCTGTTTATGTC 567
QY 6595 TCTGAGAAATGCTTGGCTCTGAGCGAGAAGACTAGAAAACGAAAGAACTGCTCCTTCCCT 6654
Db 568 TCTGAGAAATGCTTGGCTCTGAGCGAGAAGACTAGAAAACGAAAGAACTGCTCCTTCCCT 627
QY 6655 GCCTTCTAAAAGAAACAATTAAGATCCCTGAATGGAATTTTACTTAAAGAAAGTGAGAA 6714
Db 628 GCCTTCTAAAAGAAACAATTAAGATCCCTGAATGGAATTTTACTTAAAGAAAGTGAGAA 687
QY 6715 GCTTAAAGCTCCATCATCATTTAGAGATTTTCAATGAAACCTGGCTCAGTTCAAAAAGAAA 6774
Db 688 GCTTAAAGCTCCATCATCATTTAGAGATTTTCAATGAAACCTGGCTCAGTTCAAAAAGAAA 747
QY 6775 TAGTGTCAGGTTGTCATGAGACCAAGAGGTAGACTTGAATCAACCAAGAAATTCATTGACA 6834
Db 748 TAGTGTCAGGTTGTCATGAGACCAAGAGGTAGACTTGAATCAACCAAGAAATTCATTGACA 807
QY 6835 ATATTTTATTTGTCATGATGATACACAGAAAAAATATGTAATTTAAAAAATGTTTGAA 6894
Db 808 ATATTTTATTTGTCATGATGATACACAGAAAAAATGTAATTTAAAAAATGTTTGAA 867
QY 6895 AGGAGGTTACCTCTCATCTTCTTAGAAAAAGCTTATGTAATTTCCATTTCCATATCCAA 6954
Db 868 AGGAGGTTACCTCTCATCTTCTTAGAAAAAGCTTATGTAATTTCCATTTCCATATCCAA 927
QY 6955 TATTTTATATATGTAAGTTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 7014

Db 928 TACTTTATATATGTAAGTTTATTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 987
QY 7015 ATATGGAATTTATTTATAGAAACATTATCTGCTATTGATATTT-AGTATAAGGCAAAATTA 7073
Db 988 ATATGGAATTTATTTATAGAAACATTATCTGCTATTGATATTTGAGTATAAGCAAAATTA 1047
QY 7074 ATTTATGACATAACTATGGAACCAAGATATCTTAGGCTTTAAATAAACACATGGATATCA 7133
Db 1048 ATTTATGATAAATAACTATAGAAACAGATATCTTAGGCTTTAAATAAACACATGAATATCA 1107
QY 7134 TAAA 7137
Db 1108 TAAA 1111

RESULT 15
US-09-419-568P-9
; Sequence 9, Application US/09419568P
; Patent No. 6331613
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/09/419,568P
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-419-568P-9

Query Match 7.5%; Score 555.2; DB 3; Length 1111;
Best Local Similarity 96.0%; Pred. No. 2.6e-130;
Matches 580; Conservative 0; Mismatches 23; Indels 1; Gaps 1;
QY 6535 ATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGACCTGCTGTTTATGTC 6594
Db 508 AAAGCTTGGAGAGAGCGGAGAGATCAAGCGATCGGGGAACCTGACCTGCTGTTTATGTC 567
QY 6595 TCTGAGAAATGCTTGGCTCTGAGCGAGAAGACTAGAAAACGAAAGAACTGCTCCTTCCCT 6654
Db 568 TCTGAGAAATGCTTGGCTCTGAGCGAGAAGACTAGAAAACGAAAGAACTGCTCCTTCCCT 627
QY 6655 GCCTTCTAAAAGAAACAATTAAGATCCCTGAATGGAATTTTACTTAAAGAAAGTGAGAA 6714
Db 628 GCCTTCTAAAAGAAACAATTAAGATCCCTGAATGGAATTTTACTTAAAGAAAGTGAGAA 687
QY 6715 GCTTAAAGCTCCATCATCATTTAGAGATTTTCAATGAAACCTGGCTCAGTTCAAAAAGAAA 6774
Db 688 GCTTAAAGCTCCATCATCATTTAGAGATTTTCAATGAAACCTGGCTCAGTTCAAAAAGAAA 747
QY 6775 TAGTGTCAGGTTGTCATGAGACCAAGAGGTAGACTTGAATCAACCAAGAAATTCATTGACA 6834
Db 748 TAGTGTCAGGTTGTCATGAGACCAAGAGGTAGACTTGAATCAACCAAGAAATTCATTGACA 807
QY 6835 ATATTTTATTTGTCATGATGATACACAGAAAAAATATGTAATTTAAAAAATGTTTGAA 6894
Db 808 ATATTTTATTTGTCATGATGATACACAGAAAAAATGTAATTTAAAAAATGTTTGAA 867
QY 6895 AGGAGGTTACCTCTCATCTTCTTAGAAAAAGCTTATGTAATTTCCATTTCCATATCCAA 6954
Db 868 AGGAGGTTACCTCTCATCTTCTTAGAAAAAGCTTATGTAATTTCCATTTCCATATCCAA 927

Qy	6955	TATTTTATATATGTAAGTTTATTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA	7014
Db	928	TACTTTATATATGTAAGTTTATTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA	987
Qy	7015	ATATGGATTTTATTTATAGAAACATTTATCTGCTATTGATATTT-AGTATAAGGCAAAATAAT	7073
Db	988	ATATGGATTTTATTTATAGAAAATTTATCTGATGTTGATATTTGAGTATAAAGCAAAATAAT	1047
Qy	7074	ATTATGACAAATACTATGGGAAACAAGATATCTTTAGGCTTTAATAAACACATGGATATCA	7133
Db	1048	ATTATGATAATACTATAGAAACACAGATATCTTTAGGCTTTAATAAACACATGAATATCA	1107
Qy	7134	TAAA	7137
Db	1108	TAAA	1111

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OM nucleic - nucleic search, using sw model

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
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10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	7445	100.0	7445	3	US-09-751-797-8
2	7445	100.0	7445	7	US-10-627-273-8
3	4245.2	57.0	5935	3	US-09-751-797-29
4	4245.2	57.0	5935	7	US-10-627-273-29
5	686	9.2	4797	3	US-09-751-797-25
6	686	9.2	4797	7	US-10-627-273-25
7	601.4	8.1	1119	7	US-09-751-797-7
8	601.4	8.1	1119	3	US-10-627-273-7
9	598.2	8.0	1166	5	US-10-084-298-3
10	598.2	8.0	1166	6	US-10-256-977-3
11	598.2	8.0	1166	8	US-10-873-972-3
12	598.2	8.0	1166	10	US-11-157-387-3
13	555.2	7.5	1111	3	US-09-751-797-9
14	555.2	7.5	1111	7	US-10-627-273-9
15	499	6.7	1050	5	US-10-090-365-40
16	499	6.7	1050	5	US-10-104-919-42
17	499	6.7	1050	8	US-10-807-837-10
18	499	6.7	1050	9	US-10-968-432-42
19	499	6.7	1050	10	US-11-045-944-40
20	272.4	3.7	778	3	US-09-746-375-37
21	272.4	3.7	778	7	US-10-395-741B-37
22	272.4	3.7	778	7	US-10-806-294-37
23	217.6	2.9	1177	10	US-11-013-920-1

24	217.6	2.9	1177	10	US-11-013-920-1	Sequence 1, Appli
25	217.6	2.9	1191	5	US-10-084-298-1	Sequence 1, Appli
26	217.6	2.9	1191	6	US-10-256-977-1	Sequence 1, Appli
27	217.6	2.9	1191	8	US-10-873-972-1	Sequence 1, Appli
28	217.6	2.9	1191	10	US-11-157-387-1	Sequence 1, Appli
29	215.6	2.9	1116	3	US-09-728-911-14	Sequence 14, Appli
30	215.6	2.9	1116	3	US-09-925-055B-7	Sequence 7, Appli
31	215.6	2.9	1116	3	US-09-746-375-1	Sequence 1, Appli
32	215.6	2.9	1116	5	US-10-090-365-14	Sequence 14, Appli
33	215.6	2.9	1116	5	US-10-104-919-14	Sequence 14, Appli
34	215.6	2.9	1116	7	US-10-395-741B-1	Sequence 1, Appli
35	215.6	2.9	1116	7	US-10-806-294-1	Sequence 1, Appli
36	215.6	2.9	1116	8	US-10-807-837-5	Sequence 5, Appli
37	215.6	2.9	1116	9	US-10-968-432-14	Sequence 14, Appli
38	215.6	2.9	1116	9	US-10-981-998-14	Sequence 14, Appli
39	215.6	2.9	1116	10	US-11-045-944-14	Sequence 14, Appli
40	214.2	2.9	1152	3	US-09-870-574-1	Sequence 1, Appli
41	214.2	2.9	1152	5	US-10-006-867-153	Sequence 153, App
42	214.2	2.9	1152	5	US-10-066-500-125	Sequence 125, App
43	214.2	2.9	1152	5	US-10-063-547-153	Sequence 153, App
44	214.2	2.9	1152	5	US-10-063-551-153	Sequence 153, App
45	214.2	2.9	1152	5	US-10-063-616-153	Sequence 153, App

ALIGNMENTS

RESULT 1

US-09-751-797-8
; Sequence 8, Application US/09751797
; Patent No. US20010024652A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; FILE REFERENCE: (TIFS) The Proteins Encoded, and Uses Thereof
; CURRENT APPLICATION NUMBER: US/09/751,797
; CURRENT FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 8
; LENGTH: 7445
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-751-797-8

Query Match 100.0%; Score 7445; DB 3; Length 7445;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 7445; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GTCTATCACCTGCTTAAGATTCTTCTTAATTTATAAAAAAACTATTTCCTTAAATGAAA	60
Db	1	GTCTATCACCTGCTTAAGATTCTTCTTAATTTATAAAAAAACTATTTCCTTAAATGAAA	60
Qy	61	GCAACACGAGCAGTATTTATAGCAGTGTCTTCTGACCATGCGAGGTACAGAGTGAATGG	120
Db	61	GCAACACGAGCAGTATTTATAGCAGTGTCTTCTGACCATGCGAGGTACAGAGTGAATGG	120
Qy	121	TAAGAGCGGTATATCAGCATTAACCAACATGTTTCTTCTTCTGCGCAAGCAACT	180
Db	121	TAAGAGCGGTATATCAGCATTAACCAACATGTTTCTTCTTCTGCGCAAGCAACT	180
Qy	181	TGAAATCTATGCTTAAACAATCTTCAAGCCTCTTAATATAGTGTCTTAACGACTGGAGTCCG	240
Db	181	TGAAATCTATGCTTAAACAATCTTCAAGCCTCTTAATATAGTGTCTTAACGACTGGAGTCCG	240
Qy	241	CTGCTGTCCAACAGAGCTCTTGACAGCGTCTCCTCTGTTTGCAATTTATGTTCTTTGA	300

Db	241	 CTGCTGTCACACAGAGCTCTTGAGCAGCGTCTCTCTGTTTGCAATTTATGTTCTTTTGA	300
Qy	301	 TGACTCCCAACCTCTCACTTCGGCTCTGATGGCCACCTTTCAACTTCTTGCATTTA	360
Db	301	 TGACTCCCAACCTCTCACTTCGGCTCTGATGGCCACCTTTCAACTTCTTGCATTTA	360
Qy	361	 TGAACCTCATGTTTTTAATCTTTTTATTAAAAATATTACACAATCAGTGTGTGTGCAAGTC	420
Db	361	 TGAACCTCATGTTTTTAATCTTTTTATTAAAAATATTACACAATCAGTGTGTGTGCAAGTC	420
Qy	421	 TGTTTACCACATGTAATGTCGTGCAACCAAGTGTGCTGTGTCCTGTGTGGGGGCAAGGA	480
Db	421	 TGTTTACCACATGTAATGTCGTGCAACCAAGTGTGCTGTGTCCTGTGTGGGGGCAAGGA	480
Qy	481	 GCAGGAGGGTGCCCTGGCACCGGAGTCACGATGGTTGTGAGCCACCATGAGGATGCT	540
Db	481	 GCAGGAGGGTGCCCTGGCACCGGAGTCACGATGGTTGTGAGCCACCATGAGGATGCT	540
Qy	541	 GGGAGTTAGACCCAGTGCTCCAGAACTGCACAAATGCTCTTAAACACACGCAAGCATT	600
Db	541	 GGGAGTTAGACCCAGTGCTCCAGAACTGCACAAATGCTCTTAAACACACGCAAGCATT	600
Qy	601	 TCTCTCTCCAGCCCAACATGAGTGTCTTTTAGATTCCACTAGAAATAGAGATCTGATGC	660
Db	601	 TCTCTCTCCAGCCCAACATGAGTGTCTTTTAGATTCCACTAGAAATAGAGATCTGATGC	660
Qy	661	 TTCACTCACTGCCACTCCCTTTTGCATCTTTCTGCCAAGGACACCAAAAGCAAGAT	720
Db	661	 TTCACTCACTGCCACTCCCTTTTGCATCTTTCTGCCAAGGACACCAAAAGCAAGAT	720
Qy	721	 CCCCACACTGTTTCGGTCTCCTCAAGTCGCACCTCTCAACAGGTCGAAGTTCTCCAGTGT	780
Db	721	 CCCCACACTGTTTCGGTCTCCTCAAGTCGCACCTCTCAACAGGTCGAAGTTCTCCAGTGT	780
Qy	781	 CCCTCTAACACTTTCCCAGTGTCCTCTAACACTTTTCTCCAGTGTCCTCTAACACTTT	840
Db	781	 CCCTCTAACACTTTCCCAGTGTCCTCTAACACTTTTCTCCAGTGTCCTCTAACACTTT	840
Qy	841	 CTCCAGTGTCCCTCTAACACTTTTTCAGTCTAGAGGGGAGGAGAAATCTCACACA	900
Db	841	 CTCCAGTGTCCCTCTAACACTTTTTCAGTCTAGAGGGGAGGAGAAATCTCACACA	900
Qy	901	 GTGAATTTTCATGACTTCGCGTCTTAGTCTAGATGAGGCAATTTGCGTGTCAAGTCTAGGT	960
Db	901	 GTGAATTTTCATGACTTCGCGTCTTAGTCTAGATGAGGCAATTTGCGTGTCAAGTCTAGGT	960
Qy	961	 AGGGGCTGTGCTCCCGCTGCTTAGGAAAGACTTTTCTAGTCTAGTGTGAGGTCGTATCTG	1020
Db	961	 AGGGGCTGTGCTCCCGCTGCTTAGGAAAGACTTTTCTAGTCTAGTGTGAGGTCGTATCTG	1020
Qy	1021	 GGATTCAGTGTAATGATGATGTTATGTTAGTATTTTGTAAATTTCTCTTCAACT	1080
Db	1021	 GGATTCAGTGTAATGATGATGTTATGTTAGTATTTTGTAAATTTCTCTTCAACT	1080
Qy	1081	 ATCCATCTATATAGTATGTTATGTTAGGCTCATTTTAAAAATATATTTTTCAGACTTATGC	1140
Db	1081	 ATCCATCTATATAGTATGTTATGTTAGGCTCATTTTAAAAATATATTTTTCAGACTTATGC	1140
Qy	1141	 TTGCAACAAGTAAAAATGTCAGAGAAATTAGCAAAATGATATTTTAAAAAAA	1200
Db	1141	 TTGCAACAAGTAAAAATGTCAGAGAAATTAGCAAAATGATATTTTAAAAAAA	1200
Qy	1201	 TCTATGCTTAAAAATGCTATTTAGATTTGTTCACTACCGATATTTCCAACTTAACCTTGACC	1260
Db	1201	 TCTATGCTTAAAAATGCTATTTAGATTTGTTCACTACCGATATTTCCAACTTAACCTTGACC	1260
Qy	1261	 TTGGCTATGATTTCAACCTTTGATTTTGCATCTACCATTAACAGTCTCTGACACAGACAT	1320
Db	1261	 TTGGCTATGATTTCAACCTTTGATTTTGCATCTACCATTAACAGTCTCTGACACAGACAT	1320
Qy	1321	 TCTGTGGCAATGGGAGCTGTGAAGAAAGCCAACTTCTTATTTAAAAAAAACAGCTA	1380

1321	Db	TCTGTGCGCAATGGGAGCTGTGAAGAAAGCCACAATCTTCTATTAAAAAATAAAACACAGCTA	1398
1381	Qy	GTTATAGTTTAGGATTCCATATACTAAAAAATAAGAGATATATATTTTAAAAAATGTA	1440
1381	Db	GTTATAGTTTAGGATTCCATATACTAAAAAATAAGAGATATATATTTTAAAAAATGTA	1440
1441	Qy	AATAAATCTCAAAGTTTTCATTATGGCTTATTTTCAAAGCACAGAATATAGACACGGGTCT	1500
1441	Db	AATAAATCTCAAAGTTTTCATTATGGCTTATTTTCAAAGCACAGAATATAGACACGGGTCT	1500
1501	Qy	TTTATTTCTCGTCACTTCTAAAGAGATAAGAAATCTATGAAGTTGTGGGAAAAATGAGTCC	1560
1501	Db	TTTATTTCTCGTCACTTCTAAAGAGATAAGAAATCTATGAAGTTGTGGGAAAAATGAGTCC	1560
1561	Qy	GTGACCAAAACGGTGACTCAATAGCTACGGGAGATCAAAAGCGTCTCTACTCAATCAGAA	1620
1561	Db	GTGACCAAAACGGTGACTCAATAGCTACGGGAGATCAAAAGCGTCTCTACTCAATCAGAA	1620
1621	Qy	TCTACTACGGCAAAGCCATGGCTTCTTTGAAAACCGGTGTTTAAAGATTTCTGGGATTT	1680
1621	Db	TCTACTACGGCAAAGCCATGGCTTCTTTGAAAACCGGTGTTTAAAGATTTCTGGGATTT	1680
1681	Qy	GTGTGCAAAAGCACCTTGTGTGGCCCTCACCGTCAGCGTTTAAAGGAGACATCCCATCTCT	1740
1681	Db	GTGTGCAAAAGCACCTTGTGTGGCCCTCACCGTCAGCGTTTAAAGGAGACATCCCATCTCT	1740
1741	Qy	CAAGGTGGGAAGGCTTGGAGGTGTGTCTTGTGTGGCCCTCTATGGTGGTTAGGTACTTCTC	1800
1741	Db	CAAGGTGGGAAGGCTTGGAGGTGTGTCTTGTGTGGCCCTCTATGGTGGTTAGGTACTTCTC	1800
1801	Qy	AGAAACAGGACTGTGAAAATTAGATAATGTCTGATGTCAATTCATTCACAATACCAAAAA	1860
1801	Db	AGAAACAGGACTGTGAAAATTAGATAATGTCTGATGTCAATTCATTCACAATACCAAAAA	1860
1861	Qy	ACCTGTGTGTCGGATGGCTATAAAGCAGCACTTCTGCCTCTCCCATCACAGCAGAG	1920
1861	Db	ACCTGTGTGTCGGATGGCTATAAAGCAGCACTTCTGCCTCTCCCATCACAGCAGAG	1920
1921	Qy	ACACTAAACAGGTAAAGCACTCAGACCTCTACAGACAATCATCTGCTTGGTACCATGCTA	1980
1921	Db	ACACTAAACAGGTAAAGCACTCAGACCTCTACAGACAATCATCTGCTTGGTACCATGCTA	1980
1981	Qy	CCCGACGAACAATGCTCCCTGATGTTTTTGTCTTTTGTCTCTCACTAAACAGGCTCTCCT	2040
1981	Db	CCCGACGAACAATGCTCCCTGATGTTTTTGTCTTTTGTCTCTCACTAAACAGGCTCTCCT	2040
2041	Qy	CTCATTTATCACTGTGTGACACTTGTGGGATCTCTGATGGCTGTCTGCAGAAATCTATG	2100
2041	Db	CTCATTTATCACTGTGTGACACTTGTGGGATCTCTGATGGCTGTCTGCAGAAATCTATG	2100
2101	Qy	AGTTTTTCCCTTATGGGGACTTTTGGCCGCGCAGCTGCTGCTTTCATTTGCCCTGTGGGCC	2160
2101	Db	AGTTTTTCCCTTATGGGGACTTTTGGCCGCGCAGCTGCTGCTTTCATTTGCCCTGTGGGCC	2160
2161	Qy	CAGGAGGCAATGCGCTGCCGTCACACCCGGTGCAAGCTTGAGGTGTCCAACTTCAG	2220
2161	Db	CAGGAGGCAATGCGCTGCCGTCACACCCGGTGCAAGCTTGAGGTGTCCAACTTCAG	2220
2221	Qy	CAGCGGTACATGCTCAACCGCACCTTTATGCTGGCCGCAAGGAGTACAGCTGCATCTCTTT	2280
2221	Db	CAGCGGTACATGCTCAACCGCACCTTTATGCTGGCCGCAAGGAGTACAGCTGCATCTCTTT	2280
2281	Qy	CTCTCCATACCGCTTGCATTTTCTCTGAAGACATTTGCAACCTTTTAGGGGCGCTTTA	2340
2281	Db	CTCTCCATACCGCTTGCATTTTCTCTGAAGACATTTGCAACCTTTTAGGGGCGCTTTA	2340
2341	Qy	TCTCGCAGGTCTCACTACCTATGTTTTCTGTCTCTTTTAGAGACTCTTTAAGGACTGGGT	2400
2341	Db	TCTCGCAGGTCTCACTACCTATGTTTTCTGTCTCTTTTAGAGACTCTTTAAGGACTGGGT	2400
2401	Qy	CTTTTTCTATTTCTATTTCATTTCAAGGTCTCAGGACCAATTTCTATCTTGGCTTCAGACACA	2460
2401	Db	CTTTTTCTATTTCTATTTCATTTCAAGGTCTCAGGACCAATTTCTATCTTGGCTTCAGACACA	2460

QY	2461	TATACCTGAATTTTATCTACAGAGCGCATTTAGAAAGCCACCCACGACTGCAATACCTTTC	2520
Db	2461	TATACCTGAATTTTATCTACAGAGCGCATTTAGAAAGCCACCCACGACTGCAATACCTTTC	2520
QY	2521	CATTTCTCTGTCTCTCTCTGAACTACATACCTCTCTGGCTACTCTCTGAGACCCACTGCG	2580
Db	2521	CATTTCTCTGTCTCTCTCTGAACTACATACCTCTCTGGCTACTCTCTGAGACCCACTGCG	2580
QY	2581	GACATACATCTCTACTTTACAGGCTTTTCTTCCATCTCTCTGTGCAACCCAGGCACTTAGGGT	2640
Db	2581	GACATACATCTCTACTTTACAGGCTTTTCTTCCATCTCTCTGTGCAACCCAGGCACTTAGGGT	2640
QY	2641	TTTCTCTCTTTAGGCGAGCCTTTCGAGATAACACAGACGTCGCGCTCATCGGGGAGA	2700
Db	2641	TTTCTCTCTTTAGGCGAGCCTTTCGAGATAACACAGACGTCGCGCTCATCGGGGAGA	2700
QY	2701	AACCTGTTCCGAGGAGTCAGTGAAGTCTCACTGTGATGACGAGGCTAGCTCGGGAGC	2760
Db	2701	AACCTGTTCCGAGGAGTCAGTGAAGTCTCACTGTGATGACGAGGCTAGCTCGGGAGC	2760
QY	2761	TGGTGACCCCTCTGGGATAGTCTGACGTATGACCCCTGCTCTTCTGTCTACTCTGCAGG	2820
Db	2761	TGGTGACCCCTCTGGGATAGTCTGACGTATGACCCCTGCTCTTCTGTCTACTCTGCAGG	2820
QY	2821	CTAAAGATCAGTCTACCTGATGAAGCAGGTGCTCAACTTTCACCCCTGGAAAGCGTTCTGC	2880
Db	2821	CTAAAGATCAGTCTACCTGATGAAGCAGGTGCTCAACTTTCACCCCTGGAAAGCGTTCTGC	2880
QY	2881	TCCCCAGTCAGACAGGTTCCAGCCCTACATGACAGAGGTGGTACCTTCTCTGACCCAAAC	2940
Db	2881	TCCCCAGTCAGACAGGTTCCAGCCCTACATGACAGAGGTGGTACCTTCTCTGACCCAAAC	2940
QY	2941	TCAGCAATCAGCTCAGCTCTGTGTGAAGTCTGACTCTGGCTACTATGCTCTCTCTCTT	3000
Db	2941	TCAGCAATCAGCTCAGCTCTGTGTGAAGTCTGACTCTGGCTACTATGCTCTCTCTCTT	3000
QY	3001	CCTCTTCTAATTCAGTAAGAACCCGAGGTCCTGCCCTCTCTCTTCCACAAAGTAGGGA	3060
Db	3001	CCTCTTCTAATTCAGTAAGAACCCGAGGTCCTGCCCTCTCTCTTCCACAAAGTAGGGA	3060
QY	3061	GGGCTCTCAGCACACCAACCATATAGCCACTTGAATAGGTACAAAGGCTTTGGCTTC	3120
Db	3061	GGGCTCTCAGCACACCAACCATATAGCCACTTGAATAGGTACAAAGGCTTTGGCTTC	3120
QY	3121	AATTGAGTAATACTTTGAGTTTGTATGAGTGAAGCTTTATTTGTTTATCCATGGAAAGA	3180
Db	3121	AATTGAGTAATACTTTGAGTTTGTATGAGTGAAGCTTTATTTGTTTATCCATGGAAAGA	3180
QY	3181	AATCAACTCAAATTTCTGTAGGATGAGAAAGATGTTGGAAACGAAAAAGGCTTAGATAGA	3240
Db	3181	AATCAACTCAAATTTCTGTAGGATGAGAAAGATGTTGGAAACGAAAAAGGCTTAGATAGA	3240
QY	3241	GAAACAGATCTGCTGAGTATAGTACTTATGGGGGAGCAGGGGGCGATATCCACTGAGTA	3300
Db	3241	GAAACAGATCTGCTGAGTATAGTACTTATGGGGGAGCAGGGGGCGATATCCACTGAGTA	3300
QY	3301	CAAGTACTTTGGGGAGAGAAATCCACTGAGTACAAGTACTTGTGGCATGGAGATCCAC	3360
Db	3301	CAAGTACTTTGGGGAGAGAAATCCACTGAGTACAAGTACTTGTGGCATGGAGATCCAC	3360
QY	3361	TGAGTACAAGTACTTTGTGGGGGAGGGAATGGCACAGAGCAAAAGTTGAAGGGAAGGAAG	3420
Db	3361	TGAGTACAAGTACTTTGTGGGGGAGGGAATGGCACAGAGCAAAAGTTGAAGGGAAGGAAG	3420
QY	3421	ATGGAGAGGCTCATGTTGGGGGTGTGAAGGTCACTCTTTTCCATGTGATGGAGGT	3480
Db	3421	ATGGAGAGGCTCATGTTGGGGGTGTGAAGGTCACTCTTTTCCATGTGATGGAGGT	3480
QY	3481	TAGAAAAACAGTGTGTGAGTTGTGCTTTCAGACACCCCAACTATGAAAAATATCC	3540
Db	3481	TAGAAAAACAGTGTGTGAGTTGTGCTTTCAGACACCCCAACTATGAAAAATATCC	3540

QY	3541	ACAGAGAGCGGGCAGACTGTGGGAGACCTGGGCATTTTAGGAAAGCGCGGCTTTTTCACACG	3600
Db	3541	ACAGAGAGCGGGCAGACTGTGGGAGACCTGGGCATTTTAGGAAAGCGCGGCTTTTTCACACG	3600
QY	3601	AGAAAATTTATGCTCATCTCTTGTGCTACACTCCACCTTTTGTATGAGTTTCAGCTCAGGT	3660
Db	3601	AGAAAATTTATGCTCATCTCTTGTGCTACACTCCACCTTTTGTATGAGTTTCAGCTCAGGT	3660
QY	3661	TTGCTTTTACCGTCTTCTGCTACTGGTGAAATCTTCAGTAGGATTTCCCAAGACGAGGA	3720
Db	3661	TTGCTTTTACCGTCTTCTGCTACTGGTGAAATCTTCAGTAGGATTTCCCAAGACGAGGA	3720
QY	3721	CAGCTCTTCTGTAAGGAGGACCTCGATTTTCAGTGTCTTAGAGACGAAATAGCTCAGA	3780
Db	3721	CAGCTCTTCTGTAAGGAGGACCTCGATTTTCAGTGTCTTAGAGACGAAATAGCTCAGA	3780
QY	3781	GAATCTAGGTCAACGTTGAATCTAGGTCAACGCGGCAAAATGACTGAAACGCTCTATT	3840
Db	3781	GAATCTAGGTCAACGTTGAATCTAGGTCAACGCGGCAAAATGACTGAAACGCTCTATT	3840
QY	3841	CCAGGTGAACGGTCACTGCTCAGATATACCTGAGGTATTGGGCTTCCACCGGATAAGAT	3900
Db	3841	CCAGGTGAACGGTCACTGCTCAGATATACCTGAGGTATTGGGCTTCCACCGGATAAGAT	3900
QY	3901	TCGTGTAGTGAAGTCTGCTTTATTTTTCAGCACATCAGCGGTGACGACGAAATCCAG	3960
Db	3901	TCGTGTAGTGAAGTCTGCTTTATTTTTCAGCACATCAGCGGTGACGACGAAATCCAG	3960
QY	3961	AGAAATGTCAGAGGCTGAGGAGACAGTCAAAAGGTAATAATGTCAGCAAGCCCAATACT	4020
Db	3961	AGAAATGTCAGAGGCTGAGGAGACAGTCAAAAGGTAATAATGTCAGCAAGCCCAATACT	4020
QY	4021	AAGCCATTTCAGTAGGAGAGCTGGGGATTTCTTCTCTGCTTCCAGTCCCTTCTACTTTG	4080
Db	4021	AAGCCATTTCAGTAGGAGAGCTGGGGATTTCTTCTCTGCTTCCAGTCCCTTCTACTTTG	4080
QY	4081	TAAATTTTATTTGACTGTCTACTATCTGGTCCATTTACTCGCTTAGCTGACCTGATC	4140
Db	4081	TAAATTTTATTTGACTGTCTACTATCTGGTCCATTTACTCGCTTAGCTGACCTGATC	4140
QY	4141	TAGCTGGGTCTATAGATCTTCAATCTGTCTTAAATTTTGAAGTCAAAATTCCTGAGCT	4200
Db	4141	TAGCTGGGTCTATAGATCTTCAATCTGTCTTAAATTTTGAAGTCAAAATTCCTGAGCT	4200
QY	4201	AGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCACTTGTCTCGGAGGATGGCTTGTGACAG	4260
Db	4201	AGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCACTTGTCTCGGAGGATGGCTTGTGACAG	4260
QY	4261	AGTCAATGCTAGAAAGACAGCATCCCTGATTTCCAGCTCTGCACTTGTAGTGCCCATGT	4320
Db	4261	AGTCAATGCTAGAAAGACAGCATCCCTGATTTCCAGCTCTGCACTTGTAGTGCCCATGT	4320
QY	4321	GTAATTTACTTTGGCTTGAATTTAGTATTTGGGAAAGCCAGTTCCCAAGGACCTACATAATC	4380
Db	4321	GTAATTTACTTTGGCTTGAATTTAGTATTTGGGAAAGCCAGTTCCCAAGGACCTACATAATC	4380
QY	4381	TGAAGAACCAATGCAATTTGAAAACTAGAAAGCTGGGCAAAACTTACTAGAGATGATTTTG	4440
Db	4381	TGAAGAACCAATGCAATTTGAAAACTAGAAAGCTGGGCAAAACTTACTAGAGATGATTTTG	4440
QY	4441	AGCTCAATTAAGCGGATGCTCTGAAATGTGGCAAAATCAACCCAGAAATAACAAAGAG	4500
Db	4441	AGCTCAATTAAGCGGATGCTCTGAAATGTGGCAAAATCAACCCAGAAATAACAAAGAG	4500
QY	4501	CTGGATTTGCAATAGGACAGTATTTAGATCACTGGTATTAATAGCTATCATCTTAAT	4560
Db	4501	CTGGATTTGCAATAGGACAGTATTTAGATCACTGGTATTAATAGCTATCATCTTAAT	4560
QY	4561	TAAATATATAGGGCTATATATATTTTAAAGATTTAAACACAAAGAGTGGATAGCTCCCAAT	4620
Db	4561	TAAATATATAGGGCTATATATATTTTAAAGATTTAAACACAAAGAGTGGATAGCTCCCAAT	4620
QY	4621	TTACTTTGGCTTGTGTTTCAAAAGAGATAAAATATCAGTCACTGGATTAATTTATAGTGTCTATG	4680

4621	Db	 TTACTTGGCCCTGGTTTCCAAAAGAGTAAAAATATCAGTCATGSGATTAATATATAGTGCATG	4680
4681	Qy	AAAGTATGAGATGGAACCCCTTTCTTACCTTTTACCTTCCATTTCTTAGTTTTTTTTTTTC	4740
4681	Db	AAAGTATGAGATGGAACCCCTTTCTTACCTTTTACCTTCCATTTCTTAGTTTTTTTTTTTC	4740
4741	Qy	TTCACACCCCTGATCAAGCCACTAGTAGACCACTATCTGCTGTGAGCTATTATATGACTTT	4800
4741	Db	TTCACACCCCTGATCAAGCCACTAGTAGACCACTATCTGCTGTGAGCTATTATATGACTTT	4800
4801	Qy	ACAGCAAAACAATTGCTGTGTGGCTCTTTTGGGGAAGGAAACAGATAGCAGGAGGCTC	4860
4801	Db	ACAGCAAAACAATTGCTGTGTGGCTCTTTTGGGGAAGGAAACAGATAGCAGGAGGCTC	4860
4861	Qy	AGGCTACCAAGTCTGACTTCGCCCTAAAGCCAGAGGCAATGCTTCA TAGCAGAGAAAGTGAG	4920
4861	Db	AGGCTACCAAGTCTGACTTCGCCCTAAAGCCAGAGGCAATGCTTCA TAGCAGAGAAAGTGAG	4920
4921	Qy	GCTCTTCGCAAGTGGGTGCTTAAAGTAAATCAGAAAACAGGAAGGCTCCGGTTCATGGAAT	4980
4921	Db	GCTCTTCGCAAGTGGGTGCTTAAAGTAAATCAGAAAACAGGAAGGCTCCGGTTCATGGAAT	4980
4981	Qy	TATCAGTAAGATATCTACCTTATCTCCTTCTATFCGAACCTAAATCGTCTCTTTTCTTG	5040
4981	Db	TATCAGTAAGATATCTACCTTATCTCCTTCTATFCGAACCTAAATCGTCTCTTTTCTTG	5040
5041	Qy	TGTTGAGGCTGATAAAACACTTGTGTTTCTTTTGAGTGTTCATGGCTTTGTAGATTTTA	5100
5041	Db	TGTTGAGGCTGATAAAACACTTGTGTTTCTTTTGAGTGTTCATGGCTTTGTAGATTTTA	5100
5101	Qy	GTGCTCTGCCAGTCTTGTGTTAGAGGGTGTGTACTTGTGACACCTGGGCTTGGATGTAGC	5160
5101	Db	GTGCTCTGCCAGTCTTGTGTTAGAGGGTGTGTACTTGTGACACCTGGGCTTGGATGTAGC	5160
5161	Qy	ATGCCAAAGGCACACACTTCTGAATGCTGTGTAAAGGTTATATTCATTACTTTGTCT	5220
5161	Db	ATGCCAAAGGCACACACTTCTGAATGCTGTGTAAAGGTTATATTCATTACTTTGTCT	5220
5221	Qy	TTTGGAAAGGTGAAGCGTGTGGAAGAACTACACAGGAGATGTGTTCTCTGAGGAA	5280
5221	Db	TTTGGAAAGGTGAAGCGTGTGGAAGAACTACACAGGAGATGTGTTCTCTGAGGAA	5280
5281	Qy	ACTTTTTTTTTTCCCTTAAATGCCCTATAATCCACTTTTCAGTCAACTTGACTTTTATACC	5340
5281	Db	ACTTTTTTTTTTCCCTTAAATGCCCTATAATCCACTTTTCAGTCAACTTGACTTTTATACC	5340
5341	Qy	ATGCTGTCAATGAAGAGTGTTTAGGCCCGCTCTCATGCTCTGGGAAAGCACCAATA	5400
5341	Db	ATGCTGTCAATGAAGAGTGTTTAGGCCCGCTCTCATGCTCTGGGAAAGCACCAATA	5400
5401	Qy	GGGGAAGGAATGTTATGCTGAGAAATCTGACCGGCAGGGAACCTGCTCAGAGTCCCCCG	5460
5401	Db	GGGGAAGGAATGTTATGCTGAGAAATCTGACCGGCAGGGAACCTGCTCAGAGTCCCCCG	5460
5461	Qy	AAGACCAACACAGTGTGTTAAGTAGGAACAGTCCAGGGTGGGCTCATGTAATAGATGGA	5520
5461	Db	AAGACCAACACAGTGTGTTAAGTAGGAACAGTCCAGGGTGGGCTCATGTAATAGATGGA	5520
5521	Qy	CAGAGCGAGGGAAGATAAGCTACAAAGTTTTCATAGGGTCCGGAGTCTTAAAGATACAAA	5580
5521	Db	CAGAGCGAGGGAAGATAAGCTACAAAGTTTTCATAGGGTCCGGAGTCTTAAAGATACAAA	5580
5581	Qy	TAGCTGCTTGGGCTTCTAACAAGGAAGTCTGGGAAGGCAGCAAGTGAAGGGAATGG	5640
5581	Db	TAGCTGCTTGGGCTTCTAACAAGGAAGTCTGGGAAGGCAGCAAGTGAAGGGAATGG	5640
5641	Qy	AAAGGGAACCAAGATGTAGAGGACTTGAACAGCTACAAATCCTCTCACAGACGATTT	5700
5641	Db	AAAGGGAACCAAGATGTAGAGGACTTGAACAGCTACAAATCCTCTCACAGACGATTT	5700
5701	Qy	TTCTTGGGAACAATCTAGAAGGTAGTGGATTAGGTGATTCGAGGGGAGCTTGTCTTTGCCAT	5760

5701	Db	TTCTTGGAACAATCTCTAGAAAGGTAGTGGATTAGGTGATTGCGAGGGGACCTTGCTTTTGCCAT	5767
5761	Qy	TTGAAATCTGGGTTTTTGTCTCTCCTCATTTAGAGTTGAAAGCGTCAACCTTTTTTATACCTTCGAA	5820
5761	Db	TTGAACTCGGTTTTTGTCTCTCCAATTGAGGTTGAAAGCGTCAACCTTTTTTATACCTTCGAA	5820
5821	Qy	TGAGAGGAAGAAGGGGTGTATGACTCTTACCTTGGAGTTTATCTAGTTTACGGCAATG	5880
5821	Db	TGAGAGGAGAAAGAGGGGTGTATGACTCTTACCTTGGAGTTTATCTAGTTTACGGCAATG	5880
5881	Qy	GAACAGACACTCGGGACCTCCTCTTCACAAAAAAATTTGAAACCTGTGTGTTGCTCTTGTT	5940
5881	Db	GAACAGACACTCGGGACCTCCTCTTCACAAAAAAATTTGAAACCTGTGTGTTGCTCTTGTT	5940
5941	Qy	TGTTCTTTTTTAAAGAAAGCACAGGCAAGCCGACCAATATGGGTTTGAATGTGGGCTTTT	6000
5941	Db	TGTTCTTTTTTAAAGAAAGCACAGGCAAGCCGACCAATATGGGTTTGAATGTGGGCTTTT	6000
6001	Qy	GAGTCAAGGCTTTTGTAGTTGAGCACTCATCAATAGTTTGATCATGGTCAGGTGAGGGCTA	6060
6001	Db	GAGTCAAGGCTTTTGTAGTTGAGCACTCATCAATAGTTTGATCATGGTCAGGTGAGGGCTA	6060
6061	Qy	CCTGTCAGGCCGAGCCCTGCTGGCTTCGCACTTAAACATCTCCAGGTCCTCAGTATCACTTC	6120
6061	Db	CCTGTCAGGCCGAGCCCTGCTGGCTTCGCACTTAAACATCTCCAGGTCCTCAGTATCACTTC	6120
6121	Qy	CTGCTACTTAGCACAGTTAGGAGTTGAGCAAAACCTTTTTTTTCCAAACCCCACTAAATTTT	6180
6121	Db	CTGCTACTTAGCACAGTTAGGAGTTGAGCAAAACCTTTTTTTTCCAAACCCCACTAAATTTT	6180
6181	Qy	AAATTGACAAAGACTGTGTAAATTTGTGGGATACAGTGTGATTAATTTGATCTATGTGTGCAT	6240
6181	Db	AAATTGACAAAGACTGTGTAAATTTGTGGGATACAGTGTGATTAATTTGATCTATGTGTGCAT	6240
6241	Qy	TGTGCAAGGTTCAATTAAGATAGATTAATAGGCCCATCAACAGCTTTATGGTGTGGAATG	6300
6241	Db	TGTGCAAGGTTCAATTAAGATAGATTAATAGGCCCATCAACAGCTTTATGGTGTGGAATG	6300
6301	Qy	CAAGTAAATAGGTAGATGCTGTGGTGTCTTTAGGTCAGAAAGGCATGATTTTAAAGGTC	6360
6301	Db	CAAGTAAATAGGTAGATGCTGTGGTGTCTTTAGGTCAGAAAGGCATGATTTTAAAGGTC	6360
6361	Qy	TTGGGCAAAATCATATTATACTCATGCTTAAAAAATACATTAATGTTGAATTAATCTTTTATG	6420
6361	Db	TTGGGCAAAATCATATTATACTCATGCTTAAAAAATACATTAATGTTGAATTAATCTTTTATG	6420
6421	Qy	AGAAGGCTGATATTGGTTTTTGGTGTCTCAGCAGACCAATGCTCCAGCTCTTTCTTAACTG	6480
6421	Db	AGAAGGCTGATATTGGTTTTTGGTGTCTCAGCAGACCAATGCTCCAGCTCTTTCTTAACTG	6480
6481	Qy	GTACCCTTTAGAAAATGCTACCTGTGCTCAAAATTTGGTTTGTATTCTTATTTTTCATAGCT	6540
6481	Db	GTACCCTTTAGAAAATGCTACCTGTGCTCAAAATTTGGTTTGTATTCTTATTTTTCATAGCT	6540
6541	Qy	TGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAATGGAACCTGCTGTTTATGTCCTTGAG	6600
6541	Db	TGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAATGGAACCTGCTGTTTATGTCCTTGAG	6600
6601	Qy	AAATGCTTGCGTCTGAGCGAGAGAGACTAGAAAACGAAGAACTGCTCTTCCGCTTC	6660
6601	Db	AAATGCTTGCGTCTGAGCGAGAGAGACTAGAAAACGAAGAACTGCTCTTCCGCTTC	6660
6661	Qy	TAAAAAGAAACAATAAGATCCCTGAAATGGAATCTTTTATCTAAAGAAAAGTCAGAAAGCTAAC	6720
6661	Db	TAAAAAGAAACAATAAGATCCCTGAAATGGAATCTTTTATCTAAAGAAAAGTCAGAAAGCTAAC	6720
6721	Qy	GTCCATCATATTAGAAATTTTCACTGAATAACCTGGCTCAGTTTGAAAAAGAAAATAGTGT	6780
6721	Db	GTCCATCATATTAGAAATTTTCACTGAATAACCTGGCTCAGTTTGAAAAAGAAAATAGTGT	6780
6781	Qy	CAAGTTGTCATGAGACAGAGGTAGACTTGTATACCAACAAGATTTCAATGACAATATTT	6840
6781	Db	CAAGTTGTCATGAGACAGAGGTAGACTTGTATACCAACAAGATTTCAATGACAATATTT	6840

Db	1021	GGATTCAAGTACATACAATGCAAAAATCCCAAGTATTTTGTAAATTTCTCTCTTCAACT	1080
Qy	1081	ATCCATCTATATAGTAGTATGTTAGTGGCTCATTTAAAAATATATTTTGGAGACTATGC	1140
Db	1081	ATCCATCTATATAGTAGTATGTTAGTGGCTCATTTAAAAATATATTTTGGAGACTATGC	1140
Qy	1141	TTGCACAAGTAAATGTCAGAGAAATAGCAAAATGATATAGTATATTTTAAAAAAA	1200
Db	1141	TTGCACAAGTAAATGTCAGAGAAATAGCAAAATGATATAGTATATTTTAAAAAAA	1200
Qy	1201	TCTATGCTTAAATGTTCTATTTAGATGTTTCACTACCGATATTTCCAAACTTTAACTTGACC	1260
Db	1201	TCTATGCTTAAATGTTCTATTTAGATGTTTCACTACCGATATTTCCAAACTTTAACTTGACC	1260
Qy	1261	TTGGCTATGATTTCAACCTTTGATTTTGCACTACCAATACAGTCTCTGCAACCAAGACAT	1320
Db	1261	TTGGCTATGATTTCAACCTTTGATTTTGCACTACCAATACAGTCTCTGCAACCAAGACAT	1320
Qy	1321	TCTGTGGCAATGGGAGCTGTGAAGAAAGCCAAACATTTCTTATTAATAAAAAAACAGCTA	1380
Db	1321	TCTGTGGCAATGGGAGCTGTGAAGAAAGCCAAACATTTCTTATTAATAAAAAAACAGCTA	1380
Qy	1381	GTTATAGTTTAGGATTCATATACATACTAAAAAATAGAGATATATTTTAAAAAATTGA	1440
Db	1381	GTTATAGTTTAGGATTCATATACATACTAAAAAATAGAGATATATTTTAAAAAATTGA	1440
Qy	1441	AATAACTCCAGTTTCAATATGCGTTATTTCAAGCAGACAGATATATGAGCACGGGTCT	1500
Db	1441	AATAACTCCAGTTTCAATATGCGTTATTTCAAGCAGACAGATATATGAGCACGGGTCT	1500
Qy	1501	TTTATTTCTGCTCACTTTCTAAAGAGATAAGAACTATGAAAGTTGGTGGGAAATAGCTCC	1560
Db	1501	TTTATTTCTGCTCACTTTCTAAAGAGATAAGAACTATGAAAGTTGGTGGGAAATAGCTCC	1560
Qy	1561	GTGACCAAAACGCTGACTCAATAGCTACGGGAGATCAAAGGCTGCTCTACTCAATCAGAA	1620
Db	1561	GTGACCAAAACGCTGACTCAATAGCTACGGGAGATCAAAGGCTGCTCTACTCAATCAGAA	1620
Qy	1621	TCTACTACGGCAAGCCATGCTTTTGTGAAAACCGTGTGTTTGAAGATTTCTGGGATTT	1680
Db	1621	TCTACTACGGCAAGCCATGCTTTTGTGAAAACCGTGTGTTTGAAGATTTCTGGGATTT	1680
Qy	1681	GTGTGCAAAAGCACTTTGTGGCCCTCACGTCAGCTTTTAGGGAAGACTTCCCATCTCT	1740
Db	1681	GTGTGCAAAAGCACTTTGTGGCCCTCACGTCAGCTTTTAGGGAAGACTTCCCATCTCT	1740
Qy	1741	CAAGGTGGGAAGGCTTGGAGTGGTGTCTTGTGGCCTCCTATGGTGGTTAGGTACTTCTC	1800
Db	1741	CAAGGTGGGAAGGCTTGGAGTGGTGTCTTGTGGCCTCCTATGGTGGTTAGGTACTTCTC	1800
Qy	1801	AGAAAGACGAGCTGGAATTAGATAATGTCTGATGTCTATATCAATACCAAAAAA	1860
Db	1801	AGAAAGACGAGCTGGAATTAGATAATGTCTGATGTCTATATCAATACCAAAAAA	1860
Qy	1861	ACCTGTGTCCCGATGCTATAAAGCAGCAACTTCTGCCCTCCCATCAACAGCAGAG	1920
Db	1861	ACCTGTGTCCCGATGCTATAAAGCAGCAACTTCTGCCCTCCCATCAACAGCAGAG	1920
Qy	1921	ACACCTAAACAGGTAAAGCACTCAGACCTCTACAGACAATCATCTGCTTGGTACCATGCTA	1980
Db	1921	ACACCTAAACAGGTAAAGCACTCAGACCTCTACAGACAATCATCTGCTTGGTACCATGCTA	1980
Qy	1981	CCGACGAACATGCTCCCTGATGTTTGGCTTTTGTCTCTCTCACTAAAGGCTCTCCT	2040
Db	1981	CCGACGAACATGCTCCCTGATGTTTGGCTTTTGTCTCTCTCACTAAAGGCTCTCCT	2040
Qy	2041	CTCACTTATCACTGTTGACACTTGTGGAGTCTCTGATGGCTGCTCGACAAATCTATG	2100
Db	2041	CTCACTTATCACTGTTGACACTTGTGGAGTCTCTGATGGCTGCTCGACAAATCTATG	2100
Qy	2101	AGTTTTTCCCTTATGGGACTTTGGCCGCAAGCTGCCTGCTTCTCATTTGCCCTGTGGCC	2160
Db	2101	AGTTTTTCCCTTATGGGACTTTGGCCGCAAGCTGCCTGCTTCTCATTTGCCCTGTGGCC	2160

Db	2101	AGTTTTTCCCTTATGGGACTTTTGGCCGCAAGCTGCCTGCTTCTCATTTGCCCTGTGGCC	2160
Qy	2161	CAGGAGGCAAAATGCGTGGCCGCTCAACACCCGCTGCAAGCTTGAGGTGTCCAATCTCCAG	2220
Db	2161	CAGGAGGCAAAATGCGTGGCCGCTCAACACCCGCTGCAAGCTTGAGGTGTCCAATCTCCAG	2220
Qy	2221	CAGCCGTACATCGTCAACCGCACCTTTATGCTCGCCAAAGGAGGTACAGCTGCACTCTTTT	2280
Db	2221	CAGCCGTACATCGTCAACCGCACCTTTATGCTCGCCAAAGGAGGTACAGCTGCACTCTTTT	2280
Qy	2281	CTCTCCATACCGCTTGGCCATTTTCTCTGAAGCACTTGCAACTCTTTAGGGGGCTTTA	2340
Db	2281	CTCTCCATACCGCTTGGCCATTTTCTCTGAAGCACTTGCAACTCTTTAGGGGGCTTTA	2340
Qy	2341	TCTCCGAGGTCTCACTACCTATGTTTCTGCTCTCTTTAGAGACTCTTTAAGGACTGGGT	2400
Db	2341	TCTCCGAGGTCTCACTACCTATGTTTCTGCTCTCTTTAGAGACTCTTTAAGGACTGGGT	2400
Qy	2401	CTTTTCTATTTCTATTTCAAGGTCTCAGGACCATTTCTTATCTTGGCCTTCCAGGACACA	2460
Db	2401	CTTTTCTATTTCTATTTCAAGGTCTCAGGACCATTTCTTATCTTGGCCTTCCAGGACACA	2460
Qy	2461	TATATGAATTTTATCTACAGAGCGCATTTAGAAAGCCACCCAGACTGCAATACTTTC	2520
Db	2461	TATATGAATTTTATCTACAGAGCGCATTTAGAAAGCCACCCAGACTGCAATACTTTC	2520
Qy	2521	CATTTCTCTGCTCTCTCTGAACTCATACTCTCTTGGCTACTCTCTGAGACCCACCTGCG	2580
Db	2521	CATTTCTCTGCTCTCTCTGAACTCATACTCTCTTGGCTACTCTCTGAGACCCACCTGCG	2580
Qy	2581	GACATACATCTCTACTTTACAGGCTTTTCTTCCATCTCTTGTCAACCCAGGACCTTAGGGT	2640
Db	2581	GACATACATCTCTACTTTACAGGCTTTTCTTCCATCTCTTGTCAACCCAGGACCTTAGGGT	2640
Qy	2641	TTTCTCTCTTTTACGGCCAGCTTGCAGATTAACAACAGACGCTCGGCTCATCGGGAGA	2700
Db	2641	TTTCTCTCTTTTACGGCCAGCTTGCAGATTAACAACAGACGCTCGGCTCATCGGGAGA	2700
Qy	2701	AACTGTTCCGAGGAGTCAGTGAAGTCTCAGCTGATGAGCAGGCTAGCTCGGGGAGC	2760
Db	2701	AACTGTTCCGAGGAGTCAGTGAAGTCTCAGCTGATGAGCAGGCTAGCTCGGGGAGC	2760
Qy	2761	TGTTGGAACCTCTCTGGGATAGTCTGACGTATGACCCCTGCTGCTTCTTGTCTACCTGAGG	2820
Db	2761	TGTTGGAACCTCTCTGGGATAGTCTGACGTATGACCCCTGCTGCTTCTTGTCTACCTGAGG	2820
Qy	2821	CTAAAGATCAGTCTACCTGATGAAGCAGGTGCTCAACTTCAACCTGGAAGACGTTCTGC	2880
Db	2821	CTAAAGATCAGTCTACCTGATGAAGCAGGTGCTCAACTTCAACCTGGAAGACGTTCTGC	2880
Qy	2881	TCCGCCAGTCAGACAGGTTCCAGCCCTACATGACAGGAGTGGTACCTTCTGACCAAAAC	2940
Db	2881	TCCGCCAGTCAGACAGGTTCCAGCCCTACATGACAGGAGTGGTACCTTCTGACCAAAAC	2940
Qy	2941	TCAGCAATCAGCTCAGCTCTGTTAAAGTCTGACTCTGGCTACCTATGCTCTCTCTCTT	3000
Db	2941	TCAGCAATCAGCTCAGCTCTGTTAAAGTCTGACTCTGGCTACCTATGCTCTCTCTCTT	3000
Qy	3001	CTCTCTTCTATTTCCAGTAAAGAACCCGAGGTCTGCGCTCTCTCTTTCACAAGAGTGAGGA	3060
Db	3001	CTCTCTTCTATTTCCAGTAAAGAACCCGAGGTCTGCGCTCTCTCTTTCACAAGAGTGAGGA	3060
Qy	3061	GGGCTCAGGACCAACCACTCATAGGCCATTAGGCACTTGAATAGTTCACAAAGGCTTTGGCTTC	3120
Db	3061	GGGCTCAGGACCAACCACTCATAGGCCATTAGGCACTTGAATAGTTCACAAAGGCTTTGGCTTC	3120
Qy	3121	AAATTGAGTATATCTTTGAGTTTGTATGAGTGAAGCTTTATTTGTTTTATCCATCGAAAGA	3180
Db	3121	AAATTGAGTATATCTTTGAGTTTGTATGAGTGAAGCTTTATTTGTTTTATCCATCGAAAGA	3180
Qy	3181	AATCAACTCAAAATCTCTAGGATGAGAAAGATGTTGGGAACGAAAGGCTCTAGATAGA	3240
Db	3181	AATCAACTCAAAATCTCTAGGATGAGAAAGATGTTGGGAACGAAAGGCTCTAGATAGA	3240

Qy	3241	GAACAGATCTGCTGAGTACATAGTATGAGGGGAGCAGGGGGGATATCCACTGAGTA	3300
Dd	3241	GAACAGATCTGCTGAGTACATAGTATGAGGGGAGCAGGGGGGATATCCACTGAGTA	3300
Qy	3301	CAAGTACTGTTGGGGAGAGAAATCCACTGAGTACAAGTACTGTTGGCATGAGATCCAC	3360
Dd	3301	CAAGTACTGTTGGGGAGAGAAATCCACTGAGTACAAGTACTGTTGGCATGAGATCCAC	3360
Qy	3361	TGAGTACAAGTACTGTTGGGGAGAGAAATCCACTGAGTACAAGTACTGTTGGCATGAGATCCAC	3420
Dd	3361	TGAGTACAAGTACTGTTGGGGAGAGAAATCCACTGAGTACAAGTACTGTTGGCATGAGATCCAC	3420
Qy	3421	ATGAGAGAGGCTCATGTTGGGGTGTGAAAGGTCACTCTCTTTCCATGTGATGGAGGT	3480
Dd	3421	ATGAGAGAGGCTCATGTTGGGGTGTGAAAGGTCACTCTCTTTCCATGTGATGGAGGT	3480
Qy	3481	TAAGAAAACAGTGTGAGTTGATGTCTTACAGACACCCCCCACTATGAACATATCC	3540
Dd	3481	TAAGAAAACAGTGTGAGTTGATGTCTTACAGACACCCCCCACTATGAACATATCC	3540
Qy	3541	ACGAGGAGCGGACAGCTGTGGGAGACCTGGCATTTTAGGGAAGCGCGGCTTTTTCACAG	3600
Dd	3541	ACGAGGAGCGGACAGCTGTGGGAGACCTGGCATTTTAGGGAAGCGCGGCTTTTTCACAG	3600
Qy	3601	AGAACTTTATGCTCATCTCTTGTGCTACACTCCACCTTTGATGAGGTTTCAAGGT	3660
Dd	3601	AGAACTTTATGCTCATCTCTTGTGCTACACTCCACCTTTGATGAGGTTTCAAGGT	3660
Qy	3661	TTGCTTTCTACCGTTCTGTTGCTACCTGCTTACAGTGGATTTCCCAAGACGAGGA	3720
Dd	3661	TTGCTTTCTACCGTTCTGTTGCTACCTGCTTACAGTGGATTTCCCAAGACGAGGA	3720
Qy	3721	CAGCTCTTCTGTAAGGAGGACCTGGAATTTAGTGGATTTCCCAAGACGAGGA	3780
Dd	3721	CAGCTCTTCTGTAAGGAGGACCTGGAATTTAGTGGATTTCCCAAGACGAGGA	3780
Qy	3781	GAATCTAGGTTCAAGCTGAAATCTAGGTTCAAGCGGGCAAAATGACGTGAACGCTCTATT	3840
Dd	3781	GAATCTAGGTTCAAGCTGAAATCTAGGTTCAAGCGGGCAAAATGACGTGAACGCTCTATT	3840
Qy	3841	CCAGGTGAACGGTCAAGTGTGCTGATATATGAGGTTATGAGGTTCCCAAGGATAGAT	3900
Dd	3841	CCAGGTGAACGGTCAAGTGTGCTGATATATGAGGTTATGAGGTTCCCAAGGATAGAT	3900
Qy	3901	TCGTGTTAGTGTGCTTTTATTTTTCAGACATCAGCGGTGACGACGACGACATCCAG	3960
Dd	3901	TCGTGTTAGTGTGCTTTTATTTTTCAGACATCAGCGGTGACGACGACGACATCCAG	3960
Qy	3961	AAGAACTGTGAGAGGCTGAAAGGAGACAGTGAAGAGTACTATTTGGCAAGCCCAATACT	4020
Dd	3961	AAGAACTGTGAGAGGCTGAAAGGAGACAGTGAAGAGTACTATTTGGCAAGCCCAATACT	4020
Qy	4021	AAGCAATTCAGTAGGAGACGTTGGGATTTCTTTCTGCTTCCAGTCCCTTCTACTTTG	4080
Dd	4021	AAGCAATTCAGTAGGAGACGTTGGGATTTCTTTCTGCTTCCAGTCCCTTCTACTTTG	4080
Qy	4081	TAACATTTTATTTGACTTTGCTACTATCTGGTCCATTTACTCGCTTAGCTGACCTGTATC	4140
Dd	4081	TAACATTTTATTTGACTTTGCTACTATCTGGTCCATTTACTCGCTTAGCTGACCTGTATC	4140
Qy	4141	TAGCTGGGTCTATAGATCTTTTCAATCTGTCTTAAATTTGTAGTCACAATTTCTGGAGCT	4200
Dd	4141	TAGCTGGGTCTATAGATCTTTTCAATCTGTCTTAAATTTGTAGTCACAATTTCTGGAGCT	4200
Qy	4201	AGCAAAAGCTTAGCTCAGCAGTCTCATGAGCACTTGTCTCGGAGGATGCTTGTGACAG	4260
Dd	4201	AGCAAAAGCTTAGCTCAGCAGTCTCATGAGCACTTGTCTCGGAGGATGCTTGTGACAG	4260
Qy	4261	AGTCAATGCTTAGAAGACAGCATCCCTGATTTCCAGCTCTGCACTTGTGCTAGTGCCATGT	4320
Dd	4261	AGTCAATGCTTAGAAGACAGCATCCCTGATTTCCAGCTCTGCACTTGTGCTAGTGCCATGT	4320

Qy	4321	GTAATTAATCTTTGGCTTGAATTAAGTATTTGGGAAAGCCAGTTTCCACAGCACTACATAATC	4380
Dd	4321	GTAATTAATCTTTGGCTTGAATTAAGTATTTGGGAAAGCCAGTTTCCACAGCACTACATAATC	4380
Qy	4381	TGAAGAACCATTGCAATTTGAAAACCTAGAAAAGCTTGGGCAAAAATTTACTTAGAGATGATTTTGG	4440
Dd	4381	TGAAGAACCATTGCAATTTGAAAACCTAGAAAAGCTTGGGCAAAAATTTACTTAGAGATGATTTTGG	4440
Qy	4441	AGCTCATTTAAACCGGATGCTCTGAAAATGTTGGCAAAAATCAACCCAGAAATTAACAACAAAAGAG	4500
Dd	4441	AGCTCATTTAAACCGGATGCTCTGAAAATGTTGGCAAAAATCAACCCAGAAATTAACAACAAAAGAG	4500
Qy	4501	CTGGATTTGCAATATAGCAAAAGTATTTAGAAATCACTGGTATTAATAGCTATCATCTTAAT	4560
Dd	4501	CTGGATTTGCAATATAGCAAAAGTATTTAGAAATCACTGGTATTAATAGCTATCATCTTAAT	4560
Qy	4561	TAAAATATAGGGCTTATATATATTTTAAAGATTAAACACAAAGAGTGGATAGCCCTCCCAAT	4620
Dd	4561	TAAAATATAGGGCTTATATATATTTTAAAGATTAAACACAAAGAGTGGATAGCCCTCCCAAT	4620
Qy	4621	TTACTTTGGCTGCTTTTCAAAAGAGTAAATAATATCAGTCAATGGATTAATATAGTGTCTATG	4680
Dd	4621	TTACTTTGGCTGCTTTTCAAAAGAGTAAATAATATCAGTCAATGGATTAATATAGTGTCTATG	4680
Qy	4681	AAAGTATGAGATGGAACCCCTTTCTTACTTTTAACTTCTTCTTCTTCTTCTTCTTCTTCTTCTT	4740
Dd	4681	AAAGTATGAGATGGAACCCCTTTCTTACTTTTAACTTCTTCTTCTTCTTCTTCTTCTTCTTCTT	4740
Qy	4741	TTCAACCCCTGATCAAGCCACTAGTAAAGCACTATCTGCTGTGAGCTATTTATATGACTTTT	4800
Dd	4741	TTCAACCCCTGATCAAGCCACTAGTAAAGCACTATCTGCTGTGAGCTATTTATATGACTTTT	4800
Qy	4801	ACAGCAAAACAACTGCTGTGCTGCTTTTGGGAAAGGCAACAGGATAGCAGGAGCTC	4860
Dd	4801	ACAGCAAAACAACTGCTGTGCTGCTTTTGGGAAAGGCAACAGGATAGCAGGAGCTC	4860
Qy	4861	AGGCTAGCAAGTCTGACTTTGCCCTTAAAGCCAGAGGCAATGGTTGATAGCAGAGAAAGTGAG	4920
Dd	4861	AGGCTAGCAAGTCTGACTTTGCCCTTAAAGCCAGAGGCAATGGTTGATAGCAGAGAAAGTGAG	4920
Qy	4921	GCTCTTCGCAAGTGGGTGCTTAAAGTAATCAGAAAACAGGAGGCTCCGGTTGATGGAAT	4980
Dd	4921	GCTCTTCGCAAGTGGGTGCTTAAAGTAATCAGAAAACAGGAGGCTCCGGTTGATGGAAT	4980
Qy	4981	TATCAGTAAAGATATCTACCTTATCTCTTCTATCGAACTTAAATCGCTCTCTTTTCTTCTG	5040
Dd	4981	TATCAGTAAAGATATCTACCTTATCTCTTCTATCGAACTTAAATCGCTCTCTTTTCTTCTG	5040
Qy	5041	TGTGTAGGCTGATAAACAACACTTTGTTTCTTTTGGAGTGTTCATGGCTTTGTAGATTTTAA	5100
Dd	5041	TGTGTAGGCTGATAAACAACACTTTGTTTCTTTTGGAGTGTTCATGGCTTTGTAGATTTTAA	5100
Qy	5101	GTGCTCTGCCAGTCTTTGTAGAGGTTTGTACTTGTACACCTTGACCTGGCTTGGATGTTAGC	5160
Dd	5101	GTGCTCTGCCAGTCTTTGTAGAGGTTTGTACTTGTACACCTTGACCTGGCTTGGATGTTAGC	5160
Qy	5161	ATCCAAAAGGCAACACTTCTGAAATGCTGTGTAAGGTTTATTTATTTTCTTCTTCTTCTGTC	5220
Dd	5161	ATCCAAAAGGCAACACTTCTGAAATGCTGTGTAAGGTTTATTTATTTTCTTCTTCTTCTGTC	5220
Qy	5221	TTTGGAAAGGTGAAGGCTGTGTGAGAAAGAACTCACAGGAGATGTGTCTCTGTAGGAAA	5280
Dd	5221	TTTGGAAAGGTGAAGGCTGTGTGAGAAAGAACTCACAGGAGATGTGTCTCTGTAGGAAA	5280
Qy	5281	ACTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT	5340
Dd	5281	ACTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT	5340
Qy	5341	ATGCTGTCAATGAAAGAGTGTGTAGGCGGCTCTCATGCTCTGCGGAAAGCAGCAATATA	5400
Dd	5341	ATGCTGTCAATGAAAGAGTGTGTAGGCGGCTCTCATGCTCTGCGGAAAGCAGCAATATA	5400
Qy	5401	GGGAAAGGAATGTTATGCTGAGAAAATCTGACCGGCAAGGAAACTGGGTGAGAGCTCCCGG	5460


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; APPLICANT: Louhed, Jamila
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fads
; TITLE OF INVENTION: (Tifs) The Proteins Encoded, and Uses Thereof
; FILE REFERENCES: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/09/751.797
; CURRENT FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 29
; LENGTH: 5935
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-09-751-797-29

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Query Match 57.0%; Score 4245.2; DB 3; Length 5935;
Best Local Similarity 88.3%; Pred. No. 0;
Matches 5039; Conservative 0; Mismatches 178; Indels 487; Gaps 20;

Qy	1971	TACCATGCTACCCGACGAA	CATGCTCCCTCGATGATTTT	TGCTTTTGCCTCTCTC	CAC	TAA	C	2030			
Db	293	TACCATGCTATCCGACGAG	CATGTTCCCTCGATGATTTT	TGCTTTTGCCTTCTCTCG	C	TAA	C	352			
Qy	2031	AGGCTCTCCTCTACATTAT	CAACTGTTTGACACTTGTG	GGATCTCTGATGGCTGTC	T	G	C	2090			
Db	353	AGGCTCTCCTCTCAGTTAT	CAAACTTTTGGACACTTGT	CGATCGGTGATGGCTGTC	T	G	C	412			
Qy	2091	GAATCTATGAGTTTTCCTT	ATATGGGGACTTTTGGCGC	CAGCTGCTGCTTCTCAT	T	T	G	C	2150		
Db	413	GAATCTATGAGTTTTCCTT	ATATGGGGACTTTTGGCGC	CAGCTGCTGCTTCTCAT	T	T	G	C	472		
Qy	2151	CTGTGGGCGCCAGGAGCA	AAATGCGCTGCCCGTCA	ACACCCGGTGCAAGCTT	C	G	A	G	C	2210	
Db	473	CTGTGGGCGCCAGGAGCA	AAATGCGCTGCCCGTCA	ACACCCGGTGCAAGCTT	C	G	A	G	C	532	
Qy	2211	CAACTTCCAGAGCGGTACA	TGTCACCGCACTTTATG	TGTCGCCAAGAGGTAC	A	G	C	T	2270		
Db	533	CAACTTCCAGAGCGGTACA	TGTCACCGCACTTTATG	TGTCGCCAAGAGGTAC	A	G	C	T	592		
Qy	2271	GCATCTCTTCTCTCCATA	CGCGCTTGCGCATTTTCT	CTGAAGCACTTGC	A	A	A	C	T	2330	
Db	593	GCATCTCTTCTCTCCATA	CGCGCTTGCGCATTTTCT	CTGAAGCACTTGC	A	A	A	C	T	651	
Qy	2331	GGCGCTTATCTCCGAGGT	CTCACATCTATGTTTTCT	GTCTCTTTT	T	A	G	A	G	C	2390
Db	652	GGCGCTTATCTCCGAGGT	CTCACATCTATGTTTTCT	GTCTCTTTT	T	A	G	A	G	C	711
Qy	2391	AGGACTGGGTCTTTTCTCT	ATTTCTATTTCAAGGTCT	CAGGACCATTTCTCTAT	CTTTGGCCT					2450	
Db	712	AGGACTGGATCTTTTCTAT	TTTCTATTTTCAAGGTCT	CAGGACCATTTCTCTAT	CTTTGGCCT					771	
Qy	2451	TCAGGACACATATAC	TAAATTTTATCTACAG	AGCGCATTTAGAAAGCC	ACCCACGACTG					2510	
Db	772	TCAGGACACATATAC	TAAATTTTATCTACAG	AGSGCGCTTTAGAAAGCC	ACCCACGACTG					831	
Qy	2511	CAATACCTTTCATTTCTG	TGCTCTCTCTGAAC	CTCATACTCTCTTTGG	GTACTCTCTGTAG					2570	
Db	832	CAATACCTTTCATTTCTG	TGCTCTCTCTGAAC	CTCATACTCTCTTTGG	GTACTCTCTGTAG					891	
Qy	2571	ACCCACTGCGGACATAC	TATCTCTACTTACAGG	CTTTTCTTCCATCTCT	TGTCA	C	C	C	C	2630	
Db	892	ACCCACTGCGGACATAC	TATCTCTACTTACAGG	CTTTTCTTCCATCTCT	TGTCA	C	C	C	C	951	
Qy	2631	CACTTAGGTTTTCTCTCT	TTTTCAGGCGAGCCTT	GCAGATAACACAGAG	CTCCGGCTC					2690	
Db	952	CACTTAGGTTTTCTCTCT	TTTTCAGGCGAGCCTT	GCAGATAACACAGAG	CTCCGGCTC					1011	
Qy	2691	ATCGGGGAGAACTGTTT	CCGAGGAGTCAGTGT	TAAGTCCTCACTGTG	TATGACGAGGCTAG					2750	

Qy	3823	TGACTGAACGCCTCTATTTCAGAGTGAAAGGCTCAGTGCCTCAGATATACACTAGGATATTGG	3882
Db	2096	TGACTGAACGCCTCTATTTCAGAGTGAAAGGCTCAGTGCCTCAGATATACACTAGGATATTGG	2155
Qy	3883	GCCTCCCAACCGGATAAGATTCTGTAGTAGAGTCTGCTTTTATTTTTCAGACACATCAGCGGT	3942
Db	2156	GCTCCCAACCGGATAAGATTCTGTAGTAGAGTCTGCTTTTATTTTTCAGACACATCAGTGGT	2215
Qy	3943	GACGACAGAACATCCAGAAAGATGTCAGAAAGGCTGAAGGAGACAGTGA AAAAGGTACTA	4002
Db	2216	GACGACAGAACATCCAGAAAGATGTCAGAAAGGCTGAAGGAGACAGTGA AAAAGGTACTA	2275
Qy	4003	TTGCAAGACCAACATCTAGAGCAATTCAGTAGGAGAGCTGGGGAATTTCTTTCTCTGCTTC	4062
Db	2276	TTGCAAGACCAACATCTAGAGCAATTCAGTAGGAGAGCTGGGGAATTTCTTTCTCTGCTTC	2335
Qy	4063	CCAGTCCCTCTACTTTTGTAAACATTTTATTTGACTTGTCTACTATCTGTCGTCATCTCG	4122
Db	2336	CCAGTCTCTTCTACTTTTGTAAACATTTTCTTGACTTGTCTACTGTCTGCTCCATTACTCA	2395
Qy	4123	CTTAGCTGCACTGTATCTAGCTGGGCTATAGATCTTTTCAATCTGTGTCTAAATTTGTA	4182
Db	2396	CTTAGCTGCACTGTATCTAGCTGGGCTATAGATCTTTTCAATCTGTGTCTAAATTTGTA	2455
Qy	4183	AGTCACAAATCTGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCACTTGCTCG	4242
Db	2456	AGTCACAAATCTGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCACTTGCTCG	2515
Qy	4243	GAGGATGGCTTGTGACAGAGTCAATGCTAGAAAGACAGCATCCCTGATTTCCAGCTCTGCA	4302
Db	2516	GAGGATGGCTTGTGACAGAGTCAATGCTAGAAAGACAGCATCCCTGATTTCCAGCTCTGCA	2575
Qy	4303	CTTGCCCTAGTGGCCATGTGTAATTAATTTTGCTTGTATTAAGTATTTTGGAAAGCCAGTTC	4362
Db	2576	CTTGCCCTAGTGGCCATGTGTAATTAATTTTGCTTGTATTAAGTATTTTGGAAAGCCAAATTC	2635
Qy	4363	CCACGGACCTACATAATCTGGAAGAACCAATGATTTGAAACCTAGAAAGCTGGCACAAACT	4422
Db	2636	CCACGGACCTACATAATCTGGAAGAACCAATGATTTGAAACCTAGAAAGCTGGGCACAAACT	2695
Qy	4423	TACTAGAGATGATTTTGTAGCTCAATTAACCGGATGCTCTGAAATGTGGCAAAATCAACCC	4482
Db	2696	TACTAGAGATGATTTTGTAGCTCAATTAACCGGATGCTCTGAAATGTGATCAAAATCAACCC	2755
Qy	4483	AGAATAACAACAAAGAGCTGGATTTGCAAAATAGGACAAAGTATTTAGAACTACCTGGTATT	4542
Db	2756	AGAATAACAACAAAGAGCTGGATTTGCAAAATAGGACAAAGTATTTAGAACTACCTGGTATT	2815
Qy	4543	AATAGCTATCATCTTAATTAATAATATAGGCTATATA --- TATATTTAAGATTTAAACA	4598
Db	2816	AACAGCTGTCACTTAATTAATAATATAGGCTATATA --- TATATTTAAGATTTAAACA	2875
Qy	4599	CAAGAGTGGATAGCCTCCCAATTTACTTTGGCCTGGTTTCAAAAGAGTAAAAATATCAGTC	4658
Db	2876	CAAGAGTGGATAGCCTCCCAATTTACTTTGGCCTGGTTTCAATAGAGTAAAAATATCAGTC	2935
Qy	4659	ATGGAATTAATTAATAGTGTCAAGAAAGTATAGATGGAAACCCCTTTCCTTACTTTTACCT	4718
Db	2936	ATAGATTAATTAATAGTGTCAAGAAAGTATAGATGGAAACCCCTTTCCTTACTTTTACCT	2995
Qy	4719	TCATTTCTTACT --- TTTTCTTCTTCTACCCCTGATCAAGCCACTAGTAAGCACT	4773
Db	2996	TCATTTCTTACTTAATTTTCTTCTACCCCTGATCAAGCCACTAGTAAGCACT	3055
Qy	4774	ATCTGCTGTAGCTATTTATATGACTTTACAGCAACAAACATTTGCTGTGGCCTCTTTGG	4833
Db	3056	ATCTGCTGTAGCTATTTATATGACTTTACAGCAACAAACATTTGCTGTGGCCTCTTTGG	3115
Qy	4834	GGAAAGGAAACAGGATAGCAGGAGGCTCAGGCTAGCAAGTCT- GACTTGCCCTTAAGCCAG	4892
Db	3116	GGAAAGGAAACAGGATAGCAGGAGGCTCAGGCTAGCAAGTCTCAGACTCAACCTAAAGCCAG	3175

Qy	4893	AGGCATGCTTTGATAGCAGAGAAAGTGAGGCTCTTCGCAAGTGGGTGTGCTTAAAGTAATCA	4952
Db	3176	AGGCATGCTTTGATAGCAGAGAAAGTGAGGCTCTTCACAAGTGGGTGTGCTTAAAGTAATCA	3235
Qy	4953	GAAACAGGAAGGCTCCGGTTGATGGAAATTAATCAAGTAAGATATCTACCCCTTATCTC --- CT	5009
Db	3236	GAAACAGGAAGGCTCTGGTTGATGGAAATTAATCAAGTAAGATATCTACCCCTTATCTCCTCTCT	3295
Qy	5010	TCCTATCGAACCTAAATCGCTCTCTTTTCTTGTGTGTAGGCTGTATAACACACTTGTGTTTC	5069
Db	3296	TCCTATAGAGCTAAACCGTCTCTCTCTTCTTGTGTGTAGGCTGTATAACACAGCTTGTGTTTC	3355
Qy	5070	TTTTGAGTGTTCATGCTTTTGTAGATTTTATGTCCTCTGCCAGTTCCTTGTAGAGGTTT	5129
Db	3356	TTTTGAGTGTTCATGCTTTTGTAGATTTTATGTCCTCTGCCAGTTCCTTGTAGAGGTTT	3415
Qy	5130	GTTACCTTTGACACCTGGGCTTGGATGTAGCATGCCAAAGGCACACACTTCTGNAATGCT	5189
Db	3416	GTTACCTTTGACACCTGGGCTTGGATGTAGCATGCCAAAGGCACACACTTCTGNAATGCT	3475
Qy	5190	GTGTAAAAAGGTATTATTCAATTTTCTTTTGGAAAGGTGAAGCTGTGTGAGAAAG	5249
Db	3476	GTGTAAAAAGGTATTATTCAATTTTCTTTTGGAAAGGTGAAGTGTGTGAGAAAG	3535
Qy	5250	AACTCAAGGAGATGTGTTCTCTGTAGGAAACCTTTTTTTTTCCCTTTAAATGCTATAA	5309
Db	3536	AACTCAAGGAGATGTATTCTCTGTAGGAAAC - TTTTTTTTTCCCTTTAAAGCTATAA	3594
Qy	5310	TCACATTTTCACTTGTCACTTTTATACATGCTGTACATGAAAGAGTGTGTAGGCC	5369
Db	3595	TCACATTTTCACTTGTCACTTTTATACATGCTGTACATGAAAGAGTGTGTAGGCC	3654
Qy	5370	CGCTCTCATCGCTCTGGGAAAGCACCATAAGGGGAAGGAATGTTATGCTGAGAAATCTG	5429
Db	3655	CGCTCTCGTGGCTCTGGGAAAGCACCATAAGGGGAAGGAATGTTATGCCGAGAAATCTG	3714
Qy	5430	ACCGGACGGGAAACTGGTCTAGAGCTCCCGGAAAGCACCAAGTGTGTAAGTAGGAACA	5489
Db	3715	ACTGGCAGGGAACCTGGTCTAGAGCTCCCGGAAAGCACCTACAGTGTGTAAGTAGGAACA	3774
Qy	5490	GTCAGGCTGGGCTCATGTAAATAGAAATGGAACAGAGCGAGGGAAGATAGCTACAAAGTT	5549
Db	3775	GTCAGGCTGGGTTTATATAATAGAAATGGAACAGAGCGAGGGAAGATAGCTACAAAGTT	3834
Qy	5550	TCTAGGCTCCGAGTCTTAAAGATACAAATAGCTCTTGGGCTTCAATAACAAGGAAG	5609
Db	3835	TCATAGGCTCTTAAGTCTTTAAGATACAAATAGCTCTTGGGCTTCAATAACAAGGAAG	3894
Qy	5610	TCGGGAAGGAGCAAG --- TGAGAGGGAATGGAAGGGGAAAAAACAAGATGTAGAGGA	5666
Db	3895	TCGGGAAGGAGCAAGCAATTTGAGAGGAGATGGAAGGGGAAAAAACA - AATGTAGAGGA	3952
Qy	5667	CTTGAACAGCTACAAATCTCTACACAGATTTTCTTGGAAACAATCTAGAA --- GGT	5722
Db	3953	TTTGAAGAGCTACAAATCTCTACAGAGGATTTTCTTGGAGGAATCTAGAACAAAGGT	4012
Qy	5723	AGTGGATTTAGGT - GATTTGACAGGGGACTGTCTTGGCCATTTGAATCTGGGTTTGTCTC	5781
Db	4013	GGTGGATTTAGGTGATCGCAGAGGACTGTCTTGGCCATTTGAATCTGGGTTTGTCTC	4072
Qy	5782	TCCATTGAGGTTGAAAGCGTCACCC - TTTTTCACCTCGAATGGAGGAGGAAGAGGGGT	5840
Db	4073	TCCATTGAGGTTGAGAGGTCACCCCTTTTACCTGGATAGGAGGAGGAAGAGGGGT	4132
Qy	5841	GTTAAGATCTCTACTCGAGGTTTTACTAGTTTACGCAATGGAACAGACACTCGGGACCTC	5900
Db	4133	GTTTGTGATCTCTACTCGAGGTTTTACTAGTTTACGCAATGGAACAGACACTCGGGACCTC	4192
Qy	5901	CTCTTTGAC - ----- AAAAAAATGGAACCTGTTGTTGTTCTCTTGTGTTCTTTTG	5950
Db	4193	CTCTTTGACAAAAAATAAAGAAACCTGTTGTTGTTCTCTTGTGTTCTTTTG	4252
Qy	5951	TTAAGAAAGCAC - -----	5963

Qy	1971	TACCATGCTACCGACGAA	CATGCTCCCTGTAGTGT	TTTTTGTGCTTTTGTCTCT	CACCTAAC	2030
Db	293	TACCATGCTATCCGACGAG	ATGTTCCCTGTAGTGT	TTTTTGTGCTTTTGTCTCT	CTCGCTAAC	352
Qy	2031	AGGCTCTCCCTCTCACTT	ATCAACTGTGTGACACTT	GTGTGCGATCTCTGTAGT	GTCTCTGCA	2090
Db	353	AGGCTCTCCCTCTCAGTT	ATCAACTTTTGACACACTT	GTGTGCGATCGGTGATG	GTCTCTGCA	412
Qy	2091	GAATCTATGAGTTTTTCC	CTTATGCGGACCTTTGG	CGCGCAGAGTCCCTCTCT	CTCATATGC	2150
Db	413	GAATCTATGAGTTTTTCC	CTTATGCGGACCTTTGG	CGCGCAGAGTCCCTCTCT	CTCATATGC	472
Qy	2151	CCTGTGGGCGCAGAGGCA	AAATGCGTCCCGTCAAC	ACCGGTCGAAGCTTGA	GAGGTGTC	2210
Db	473	CCTGTGGGCGCAGAGGCA	AAATGCGTCCCGTCAAC	ACCGGTCGAAGCTTGA	GAGGTGTC	532
Qy	2211	CAACTTCCAGCAGCGGTAC	ATCGTCAACCGCACCTT	TATGTGCGCCAAAGGAG	TACAGCT	2270
Db	533	CAACTTCCAGCAGCGGTAC	ATCGTCAACCGCACCTT	TATGTGCGCCAAAGGAG	TACAGCT	592
Qy	2271	GCATCTCTTCTCTCCANA	CGGCTTGCCATTTTCTCT	GAAAGCACTTGCAAACT	CTTTTAG	2330
Db	593	GCATCTCTTCTCTCCANA	CGGCTTGCCCACTTTTCT	CTGAAAGCACTTGCAAACT	CTTTTAG	651
Qy	2331	GGGCGCTTATCTCCGAGG	TCTCACTACCTATGTTT	CTCTCTCTTTAGAGACT	CTTTTA	2390
Db	652	GGGCGCTTATCTCCGAGG	TCTCACTACCTATGTTT	CTCTCTCTTTAGAGACT	CTTTTA	711
Qy	2391	AGGACTGGGCTTTTCTAT	TCTTATTTCAAGGTCTC	AGGACCACTTTCCTATCT	TGCGCCT	2450
Db	712	AGGACTGGACTTTTCTAT	TCTTATTTCAAGGTCTC	AGGACCACTTTCCTATCT	TGCGCCT	771
Qy	2451	TCAGGACACATATCTGAA	TTTTTATCTACAGAGCGC	ATTTAGAAAGCCACCAAG	ACTG	2510
Db	772	TCAGGACACATATCTGAA	TTTTTATCTACAGAGCGC	ATTTAGAAAGCCACCAAG	ACTG	831
Qy	2511	CAATACTTCCATTTCTCT	GTGCTCTCTCTGAACT	CATCTCTCTTGGCTACT	CTCTGAG	2570
Db	832	CAATACTTCCATTTCTCT	GTGCTCTCTCTGAACT	CATCTCTCTTGGCTACT	CTCTGAG	891
Qy	2571	ACCCACTCGCGACATAC	ATCTCTACTTACAGGCTT	TTCTTCCATCTCTCTGT	CAACCAGG	2630
Db	892	ACCCACTCGCGACATAC	ATCTCTACTTACAGGCTT	TTCTTCCATCTCTCTGT	CAACCAGG	951
Qy	2631	CACTTAGGGTTTTCTCT	TTTTCAGGCGAGCTTG	CGAGATAACAAACAGAG	CTCCGGCTC	2690
Db	952	CACTTAGGGTTTTCTCT	TTTTCAGGCGAGCTTG	CGAGATAACAAACAGAG	CTCCGGCTC	1011
Qy	2691	ATCGGGGAGAACTGTTC	CGAGGAGTCAAGTAA	GTCTCTCACTGTGATG	AGCAGGGCTAG	2750
Db	1012	ATCGGGGAGAACTGTTC	CGAGGAGTCAAGTAA	GTCTCTCACTGTGATG	AGCAGGGCTAG	1071
Qy	2751	CTCGGGGAGCTGTGGAC	CTCTGGGATAGTCTG	ACACGTATGACCCCTG	CTCTTTGTC	2810
Db	1072	CTCGGGGAGCTGTGGAC	CTCTGGGATAGTCTG	ACACGTATGACCCCTG	CTCTTTGTC	1131
Qy	2811	TACCTGACGGTAAAGAT	ACAGTGTACCTGTATG	ATGAAGAGGTGCTCAA	CTTCCCTCGAA	2870
Db	1132	TACCTGACGGTAAAGAT	ACAGTGTACCTGTATG	ATGAAGAGGTGCTCAA	CTTCCCTCGAA	1191
Qy	2871	GACGTTCTGCTCCCGAG	TCAGAGGTTCCAGGCTT	CACGCTACATGACAGG	AGGTGTTACCTTTC	2930
Db	1192	GACGTTCTGCTCCCGAG	TCAGAGGTTCCAGGCTT	CACGCTACATGACAGG	AGGTGTTACCTTTC	1251
Qy	2931	CTGACCAAACTCAGCAAT	CAGCTCAGCTCTCTGT	GTATGATCTGAGCTCT	GGCTACCTATGCT	2990
Db	1252	CTGACCAAACTCAGCAAT	CAGCTCAGCTCTCTGT	GTATGATCTGAGCTCT	GGCTACCTATGCT	1311
Qy	2991	CCTCTCTCTTCTCTTAT	TTCAGTAAAGAACCGG	AGGTCTGCGCTCTCT	CTCTTTCACA	3050
Db	1312	CCTCTCTCTTCTCTTAT	TTCAGTAAAGAACCGG	AGGTCTGCGCTCTCT	CTCTTTCACA	1371

Qy	3051	AGAGTGAGGAGGCGCTC	AGCACCAACCATCATAG	CCCACTTGAATAGGT	CACAAGG	3110
Db	1372	AGAGTGAGGAGGCGCTC	AGCACCAACCATCATAG	CCCACTTGAATAGGT	CACAAGG	1431
Qy	3111	CTTTGGCTTCAATTGAGT	TAATACTTTTGAGTTGT	TATGAGTGAAGCTT	TATTTTATC	3170
Db	1432	CTTTGGCTTCAATTGAGT	TAATACTTTTGAGTTGT	TATGAGTGAAGCTT	TATTTTATC	1491
Qy	3171	CATTGAAAGAAATCAACT	CAAAATTTCTGTAGAT	GTAGAAAGATGTTGG	AAAGG	3230
Db	1492	CATTGAAAGAAATCAACT	CAAAATTTCTGTAGAT	GTAGAAAGATGTTGG	AAAGG	1551
Qy	3231	CCTAGATAGAGAAACAG	ATCTGCTGAGTATAGT	ACTTTAT	---	3286
Db	1552	CCTAGATAGAGAAACAG	ATCTGCTGAGTATAGT	ACTTTAT	---	1611
Qy	3287	ATATCCACTGAGTACAAG	TACTTGTGGGAGAGAAAT	CCACTGAGTACAAGT	ACTTTG	3346
Db	1612	ATATCCACTGAGTACAAG	TACTTGTGGGAGAGAAAT	CCACTGAGTACAAGT	ACTTTG	1669
Qy	3347	GCATGGAGTCCACTGAG	TACAAAGTACTTGTGGG	GAGGAAATGSCACAG	AGCAAAAGT	3406
Db	1670	-----	-----	-----	-----	1697
Qy	3407	TGAAGGGA---	AGGAAGATGGAGAGG	CCCTCATGTTGGGGGT	GTGAAAGGTCACTCC	3462
Db	1698	TGAAGGGAAGAGAGAG	ATGGAGGCTCAATGTT	GGGGGTGTGAAAGGT	CACTCCTTT	1757
Qy	3463	TTCCATGTGATGGAGAT	TAAAGAAACCAAGTGT	GAGTTTGTATGTC	TTCAGACACCC	3522
Db	1758	TTCCATGTGATGGAGAT	TAAAGAAACCAAGTGT	GAGTTTGTATGTC	TTCAGACACCC	1817
Qy	3523	CAACTATGAACAATATC	CCAGGAGCGGCGACACT	TGTGGGAGACCTGGCA	TATTTAGGGAA	3582
Db	1818	AA-----	-----	-----	-----	1855
Qy	3583	GGGGCGCTTTTTCAC	AGAAACTTTATGCTCAT	CTCTTGTGTACACT	CCCCACCTTTG	3642
Db	1856	GGGGCGCTTTTTCAC	AGAAACTTTATGCTCAT	CTCTTGTGTACACT	CCCCACCTTTG	1915
Qy	3643	ATGAGGTTACGCTCAG	GTTCGTTTCTACCGT	TCTTCTACTGTGAAA	ACTTCAGTAGG	3702
Db	1916	ATGAGGTTAAAGCTCAG	GTTCGTTTCTACCGT	TCTTCTACTGTGAAA	ACTTCAGTAGG	1975
Qy	3703	ATTCCCAAGAGAGAG	CAGACAGCTCTCTGT	AAAGGAGGACCTGG	ATTTAGTCTCTAG	3762
Db	1976	ATTCCCAAGAGAGAG	CAGACAGCTCTCTGT	AAAGGAGGACCTGG	ATTTAGTCTCTAG	2035
Qy	3763	AGAACGAAATAGCTC	AGAGAAATCTAGGT	CAACGTTAAATCT	AGGTCAAGGCGCAAAA	3822
Db	2036	AGAACGAAATAGCTC	AGAGAAATCTAGGT	CAACGTTAAATCT	AGGTCAAGGCGCAAAA	2095
Qy	3823	TGACTGAACGCTCTAT	TTCAGGTTGAACG	GTGCTCAGATATAC	TGAGGTATTGG	3882
Db	2096	TGACTGAACGCTCTAT	TTCAGGTTGAACG	GTGCTCAGATATAC	TGAGGTATTGG	2155
Qy	3883	GCTCCCAAGGATAAG	ATTTCTGTAGTCTCT	TTTATTTTTCAG	ACATCAGCGGT	3942
Db	2156	GCTCCCAAGGATAAG	ATTTCTGTAGTCTCT	TTTATTTTTCAG	ACATCAGCGGT	2215
Qy	3943	GACGACAGAAATCA	CCAGAGAAATGT	CAGAGGCTGAAGG	AGACAGTGAAGGTTACTA	4002
Db	2216	GACGACAGAAATCA	CCAGAGAAATGT	CAGAGGCTGAAGG	AGACAGTGAAGGTTACTA	2275
Qy	4003	TGCGCAAGCCAAAT	CTAATAAGCCAT	TTCAGTGAAGAG	CGTGGGGATTTCTTCT	4062
Db	2276	TGCGCAAGCCAAAT	CTAATAAGCCAT	TTCAGTGAAGAG	CGTGGGGATTTCTTCT	2335
Qy	4063	CCAGTCCCTCTACT	TTTGAACATTTTAT	TGTGACTTGTCT	TACTTCTGCTTCTG	4122
Db	2336	CCAGTCCCTCTACT	TTTGAACATTTTAT	TGTGACTTGTCT	TACTTCTGCTTCTG	2395
Qy	4123	CTTAGCTGCACCTG	TATCTAGCTGGG	CTATAGATCTTT	CAATCTGTCTTAAATTTTGA	4182

||||| 2396 CTTAGTCGCACTGATCTAGCTGGGCTATAGATCTTCAATCTGTGTCTAAATTTGTA 2455
||||| 4183 AGTCACAAATCTGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCACTTGTCTCG 4242
||||| 2456 AGTCACAAATCTGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCACTTGTCTCG 2515
||||| 4243 GAGGATGGCTTGTGACAGAGTCAATGCTAGAAGACAGCATCCCTGATTTCCAGCTCTGCA 4302
||||| 2516 GAGGATGGCTTGTGACAGAGTCAATGCTAGAAGACAGCATCCCTGATTTCCAGCTCTGCA 2575
||||| 4303 CTTGCTTAGTGGCCATCTGTAAATTTACTTTGGCTTGATTAAGTATTTGGGAAGCCAGTTTC 4362
||||| 2576 CTTGCTTAGTGGCCATCTGTAAATTTACTTTAGCCCTGATTTAGGATTTTGGGAAGCCAAATTC 2635
||||| 4363 CCAGGACCTACATAATCTGAAGAACCATGATTTGAAGAACTAGAAAGCTGGGCAAACT 4422
||||| 2636 CCACCGACCTACATAATCCGAGAGAGCATGATTTGAAGAACTAGAAAGCTGGGCAAACT 2695
||||| 4423 TACTAGAGATGATTTTGGATCTCAATTAACCGATGCTCTGAATGTGGCAAAATCAACCC 4482
||||| 2696 TACTAGAGATGATTTTGGATCTCAATTAACCGATGCTCTGAATGTGGCAAAATCAACCC 2755
||||| 4483 AGAATAACAACAAGAGCTGGATTTGCCAAATAGGACAGATATTTAGAACTACCTGTATT 4542
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||||| 4543 AATAGCTATCATCTTAATTAATAATATAGGCTATATA ---TATATTTAAGATTAACA 4598
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||||| 4599 CAAGAGTGGATAGCTCCCAATTTACTTGGCTGGTTTCAAAAGAGTAAATAATCAGTC 4658
||||| 2876 CAAGAGTGGATAGCTCCCAATTTACTTGGCTGGTTTCAATAGAGTAAATAATCAGTC 2935
||||| 4659 ATGGAATTAATATAGTGTCAATGAAGTATAGAGTGGAAACCCCTTTCCTTACTTTTACCT 4718
||||| 2936 ATAGATTAATATATAGTGTCAATGAAGTATAGTGTGGAAACCCCTTTCCTTACTTTTACCT 2995
||||| 4719 TCATTTCTTAGT ---TTTTTTTTTCTTCAACCCCTGATCAAGCCACTAGTAGACCT 4773
||||| 2996 TCATTTCTTAGTATTAATTTTTTTTTTCTTCAACCCCTGATCAAGCCACTAGTAGACCT 3055
||||| 4774 ATCTGCTGTAGCTATTAATATGACTTTACAGCAAAACAATTTGCTGTGGCTCTTTGG 4833
||||| 3056 ATCTGCTGCGACTATTAATATGACTTTACAGCAAAACAATTTGCTGTGGCTCTTTGG 3115
||||| 4834 GGAAGGAAACAGGATAGCAGAGGCTCAGGCTAGCAAGTCT -GACTTGCCTTAAAGCCAG 4892
||||| 3116 GGAAGGAAACAGGATAGCAGAGGCTCAGGCTAGCAAGTCTGGAATCAAGCTTAAAGCCAG 3175
||||| 4893 AGGATGGTTGATAGCAGAGAGTGGGCTCTTCGCAAGTGGGTGCTTAAGTAAATCA 4952
||||| 3176 AGGATGGTTGATAGCAGAGAGTGGGCTCTTCACAGTGGGTGCTTAAGTAAATCA 3235
||||| 4953 GAAACAGAAAGGCTCCGGTTGATGGAATATCAGTAAGATATCTACCCCTTATCTC ---CT 5009
||||| 3236 GAAACAGAAAGGCTCTGGTTGATGGAATATCAGTAAGATATCTACCCCTTATCTCCTTCT 3295
||||| 5010 TCTATCGAACCTAAATCGTCTCTTTTCTTGTGTAGGCTGATAACACACTTGTGTTTC 5069
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||||| 5070 TTTTGTAGTGTTCATGGCTTTGTAGATTTTGTAGTCTCTGCGAGTCTTGTGTAGAGGTTT 5129
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RESULT 5

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US-09-751-797-25
; Sequence 25, Application US/09751797
; Patent No. US20010024652A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: (Tifs) The Proteins Encoded, and Uses Thereof
; FILE REFERENCES: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/09/751,797
; PRIOR FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 25
; LENGTH: 4797
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-09-751-797-25
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Query Match 9.2%; Score 686; DB 3; Length 4797;
Best Local Similarity 53.8%; Pred. No. 1.le-144;
Matches 2644; Conservative 0; Mismatches 1875; Indels 393; Gaps 44;

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Db 269 AATCCTGCTCTTTCTCGTTGGATCTACTTGGAAATCCAAATAGTTCTTAAACTTTCTTCA 328
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QY 6524 TTCTTATTTTCATAGCTTGGAGAGTGGAGAGTCAAGGCGATTGGGGAACCTGGACCTG 6583
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RESULT 6
US-10-627-273-25
; Sequence 25, Application US/10627273
; Publication No. US20040110189A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; FILE OF INVENTION: (TIFs) The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/10/627,273
; PRIOR FILING DATE: 2003-07-25
; PRIOR APPLICATION NUMBER: US/09/751,797
; PRIOR FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 25
; LENGTH: 4797
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-10-627-273-25

Query Match 9.2%; Score 686; DB 7; Length 4797;
Best Local Similarity 53.8%; Pred. No. 1.1e-144;
Matches 2644; Conservative 0; Mismatches 1875; Indels 393; Gaps 44;

QY 2034 CTCTCCTCTCACTTATCAACGTGTGACACTGTGCGGATCTCTGATGGCTGTCTGCTGCGAA 2093
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Db 3403 GAAAGCA--CAGGAGGAGAGCAATGTTTTCAGAGAAAGATCAACAGAGGAGGAACCTGT 3461
Qy 5448 CAGAGCTCCCCGGAAGACCA-----CCACAGGTGTTAAGTAGG 5485
Db 3462 CAGAGCTGTCTGAATAATAGGGTGGTTTGGGAGGCAATTAATTCCTCTCTGTTGGGGTAAA 3521
Qy 5486 AACAGTCCAGGCTGGCTCATGTAAATAGAAATGGAACAGAGCGAGGAAGATAAGCTACAA 5545
Db 3522 AGCAGAACGCGGTTGGTAGTAAAT--GCATGACAGCAGTAGGGGAGCATAACTTTAA 3580
Qy 5546 AGTTTTCATAGGGTC--CGGAGTCTTAAAGATACAAAATAGCTGC--TTGGGCTTCATAACA 5602
Db 3581 AATTTCTTTATAGTCTTGGAGTCTTTTGAGATAGAAAAGAAATATCTTTTGGGCTTATGTCA 3640

QY 7075 TTTATGACAACTATGGAACCAAGATATCTTAGGCTTTAATAAACAACATGATATCAT 7134
Db 1050 TTTATGACAACTATGGAACCAAGATATCTTAGGCTTTAATAAACAACATGATATCAT 1109
QY 7135 AAA 7137
Db 1110 AAA 1112

RESULT 8
US-10-627-273-7
; Sequence 7, Application US/10627273
; Publication No. US20040110189A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/10/627,273
; PRIOR FILING DATE: 2003-07-25
; PRIOR FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 7
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-10-627-273-7

Query Match 8.1%; Score 601.4; DB 7; Length 1119;
Best Local Similarity 99.8%; Pred. No. 8.4e-126;
Matches 602; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6535 ATAGCTTGGAGAGAGTGGAGAGATCAAGCGGATTTGGGGAACCTGGACCTGCTGTTTATGTC 6594
Db 510 AAGCTTGGAGAGAGTGGAGAGATCAAGCGGATTTGGGGAACCTGGACCTGCTGTTTATGTC 569
QY 6595 TCTGAGAAATGCTTGGCGTCTGAGCGAGAAGAGCTAGAAAAACGAAGAACTGCTCCTTCCT 6654
Db 570 TCTGAGAAATGCTTGGCGTCTGAGCGAGAAGAGCTAGAAAAACGAAGAACTGCTCCTTCCT 629
QY 6655 GCCTTCTAAAAAGAACAAATAAGATCCCTGAAATGGACTTTTTTACTAAAGGAAAGTGAGAA 6714
Db 630 GCCTTCTAAAAAGAACAAATAAGATCCCTGAAATGGACTTTTTTACTAAAGGAAAGTGAGAA 689
QY 6715 GCTAACGTCCTCATCATTTAGAGATTTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA 6774
Db 690 GCTAACGTCCTCATCATTTAGAGATTTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA 749
QY 6775 TAGTGTCAAGTTGTCCATGAGACCAAGAGTAGACTTTGATAACCAAGATTTCAATTGACA 6834
Db 750 TAGTGTCAAGTTGTCCATGAGACCAAGAGTAGACTTTGATAACCAAGATTTCAATTGACA 809
QY 6835 ATATTTTATGTCACTGATGATACAAACAGAAAAATAATGTACTTTTAAAAAATTTGTTGAA 6894
Db 810 ATATTTTATGTCACTGATGATACAAACAGAAAAATAATGTACTTTTAAAAAATTTGTTGAA 869
QY 6895 AGGAGTTACCTCTCATTTCTTTAGAAAAAGCTTATGTAACCTTCATTTCCATATCCAA 6954
Db 870 AGGAGTTACCTCTCATTTCTTTAGAAAAAGCTTATGTAACCTTCATTTCCATATCCAA 929
QY 6955 TATTTTATATGTAAGTTTATTTTATTAAGTATACATATTTTATTTATGTGAGTTTATTA 7014
Db 930 TATTTTATATGTAAGTTTATTTATTTATTAAGTATACATATTTTATTTATGTGAGTTTATTA 989

QY 7015 ATATGATTTTATTATAGAAAAACATTTATCTGCTATTGATATTTTAGTATAAGCGAAAAATAA 7074
Db 990 ATATGATTTTATTATAGAAAAACATTTATCTGCTATTGATATTTTAGTATAAGCGAAAAATAA 1049
QY 7075 TTTATGACAACTATGGAACCAAGATATCTTAGGCTTTAATAAACAACATGATATCAT 7134
Db 1050 TTTATGACAACTATGGAACCAAGATATCTTAGGCTTTAATAAACAACATGATATCAT 1109
QY 7135 AAA 7137
Db 1110 AAA 1112

RESULT 9
US-10-084-298-3
; Sequence 3, Application US/10084298
; Publication No. US20030099649A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: Pittman, Debra
; APPLICANT: Fouser, Lynette
; APPLICANT: Spaulding, Vikki
; APPLICANT: Xuan, DeJun
; TITLE OF INVENTION: Composition and Method for Treating Inflammatory
; FILE REFERENCE: G15358 CIP
; CURRENT APPLICATION NUMBER: US/10/084,298
; CURRENT FILING DATE: 2002-09-10
; PRIOR APPLICATION NUMBER: 60/270,823
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/281,353
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: 60/131,473
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/561,811
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1166
; TYPE: DNA
; ORGANISM: Murine
US-10-084-298-3

Query Match 8.0%; Score 598.2; DB 5; Length 1166;
Best Local Similarity 99.5%; Pred. No. 4.6e-125;
Matches 600; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 6535 ATAGCTTGGAGAGAGTGGAGAGATCAAGCGGATTTGGGGAACCTGGACCTGCTGTTTATGTC 6594
Db 533 AAGCTTGGAGAGAGTGGAGAGATCAAGCGGATTTGGGGAACCTGGACCTGCTGTTTATGTC 592
QY 6595 TCTGAGAAATGCTTGGCGTCTGAGCGAGAAGAGCTAGAAAAACGAAGAACTGCTCCTTCCT 6654
Db 593 TCTGAGAAATGCTTGGCGTCTGAGCGAGAAGAGCTAGAAAAACGAAGAACTGCTCCTTCCT 652
QY 6655 GCCTTCTAAAAAGAACAAATAAGATCCCTGAAATGGACTTTTTTACTAAAGGAAAGTGAGAA 6714
Db 653 GCCTTCTAAAAAGAACAAATAAGATCCCTGAAATGGACTTTTTTACTAAAGGAAAGTGAGAA 712
QY 6715 GCTAACGTCCTCATCATTTAGAGATTTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA 6774
Db 713 GCTAACGTCCTCATCATTTAGAGATTTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA 772
QY 6775 TAGTGTCAAGTTGTCCATGAGACCAAGAGTAGACTTTGATAACCAAGATTTCAATTGACA 6834
Db 773 TAGTGTCAAGTTGTCCATGAGACCAAGAGTAGACTTTGATAACCAAGATTTCAATTGACA 832
QY 6835 ATATTTTATGTCACTGATGATACAAACAGAAAAATAATGTACTTTTAAAAAATTTGTTGAA 6894
Db 833 ATATTTTATGTCACTGATGATACAAACAGAAAAATAATGTACTTTTAAAAAATTTGTTGAA 892
QY 6895 AGGAGTTACCTCTCATTTCTTTAGAAAAAGCTTATGTAACCTTCATTTCCATATCCAA 6954

Db 893 AGGAGGTACCTCTCATCTTTAGAAAAAAGCTTATGTAACCTTCAATTTCCATAACCAA 952
Qy 6955 TATTATTATATGTAAGTATTATTATTATTAAGTATACATTTTATTATGTCAGTTTATTA 7014
Db 953 TATTATTATATGTAAGTATTATTATTATTAAGTATACATTTTATTATGTCAGTTTATTA 1012
Qy 7015 ATATGGAATTTATTATTAAGAACATTTATCTGCTATTGATATTTATGATATAAGGCAAAATA 7074
Db 1013 ATATGGAATTTATTATTAAGAACATTTATCTGCTATTGATATTTATGATATAAGGCAAAATA 1072
Qy 7075 TTTATGCAATACTATGGAACAAGATATCTTAGGCTTTTAAATAACACATGGATATCAT 7134
Db 1073 TTTATGCAATACTATGGAACAAGATATCTTAGGCTTTTAAATAACACATGGATATCAT 1132
Qy 7135 AAA 7137
Db 1133 AAA 1135

RESULT 10

US-10-256-977-3
; Sequence 3, Application US/10256977
; Publication No. US20030157106A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: Pittman, Debra
; APPLICANT: Fouser, Lynette
; APPLICANT: Spaulding, Vikki
; APPLICANT: Xuan, Dejun

; TITLE OF INVENTION: Composition and Method for Treating Inflammatory

; FILE REFERENCE: Disorders

; CURRENT APPLICATION NUMBER: US/10/256,977

; CURRENT FILING DATE: 2002-09-27

; PRIOR APPLICATION NUMBER: US/10/084,298

; PRIOR FILING DATE: 2002-09-10

; PRIOR APPLICATION NUMBER: 60/270,823

; PRIOR FILING DATE: 2001-02-23

; PRIOR APPLICATION NUMBER: 60/281,353

; PRIOR FILING DATE: 2001-04-03

; PRIOR APPLICATION NUMBER: 60/131,473

; PRIOR FILING DATE: 1999-04-28

; PRIOR APPLICATION NUMBER: 03/561,811

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 10

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 3

; LENGTH: 1166

; TYPE: DNA

; ORGANISM: Murine

US-10-256-977-3

Query Match 8.0%; Score 598.2; DB 6; Length 1166;
Best Local Similarity 99.5%; Pred. No. 4.6e-125;
Matches 600; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 6535 ATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGACCTGCTGTTATGTC 6594
Db 533 AAAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGACCTGCTGTTATGTC 592
Qy 6595 TCTGAGAAATGCTTGGCTCTGAGCGAGAAGAGCTAGAAAACGAAGAACTGCTCCTTCT 6654
Db 593 TCTGAGAAATGCTTGGCTCTGAGCGAGAAGAGCTAGAAAACGAAGAACTGCTCCTTCT 652
Qy 6655 GCCTTCTAAAGAACAAATAGATCCCTGATGACCTTTTACTAAAGAAAGTGAGAA 6714
Db 653 GCCTTCTAAAGAACAAATAGATCCCTGATGACCTTTTACTAAAGAAAGTGAGAA 712
Qy 6715 GCTAACCTCCATCATCATTAAGAGATTTCATGAAACCTGGCTCAGTTGAAAAGAA 6774
Db 713 GCTAACCTCCATCATCATTAAGAGATTTCATGAAACCTGGCTCAGTTGAAAAGAA 772

Qy 6775 TAGTGTCAAGTTGCTCATGAGACCAGAGGTAGAGCTTGATTAACCAAGAGATTTCATTGACA 6834
Db 773 TAGTGTCAAGTTGCTCATGAGACCAGAGGTAGAGCTTGATTAACCAAGAGATTTCATTGACA 832
Qy 6835 ATATTTTATTGTCACGTGATGATACAAACAGAAAAAATGATGACTTTTAAAAAATGTTTGA 6894
Db 833 ATATTTTATTGTCACGTGATGATACAAACAGAAAAAATGATGACTTTTAAAAAATGTTTGA 892
Qy 6895 AGGAGGTACCTCTCATTTCTTTAGAAAAAAGCTTATGTAACCTTCAATTTCCATAACCAA 6954
Db 893 AGGAGGTACCTCTCATTTCTTTAGAAAAAAGCTTATGTAACCTTCAATTTCCATAACCAA 952
Qy 6955 TATTATTATATGTAAGTATTATTATTATTAAGTATACATTTTATTATGTCAGTTTATTA 7014
Db 953 TATTATTATATGTAAGTATTATTATTATTAAGTATACATTTTATTATGTCAGTTTATTA 1012
Qy 7015 ATATGGAATTTATTATTAAGAACATTTATCTGCTATTGATATTTATGATATAAGGCAAAATA 7074
Db 1013 ATATGGAATTTATTATTAAGAACATTTATCTGCTATTGATATTTATGATATAAGGCAAAATA 1072
Qy 7075 TTTATGCAATACTATGGAACAAGATATCTTAGGCTTTTAAATAACACATGGATATCAT 7134
Db 1073 TTTATGCAATACTATGGAACAAGATATCTTAGGCTTTTAAATAACACATGGATATCAT 1132
Qy 7135 AAA 7137
Db 1133 AAA 1135

RESULT 11

US-10-873-972-3

; Sequence 3, Application US/10873972

; Publication No. US20050042220A1

; GENERAL INFORMATION:

; APPLICANT: Li, Jing

; APPLICANT: Tan, Xiang-Yang

; APPLICANT: Tomkinson, Kathleen N.

; APPLICANT: Pittman, Debra D.

; APPLICANT: Veldman, Geertruida M.

; APPLICANT: Fouser, Lynette

; TITLE OF INVENTION: Antibodies Against Interleukin-22 and Uses Therefor

; FILE REFERENCE: AM01524

; CURRENT APPLICATION NUMBER: US/10/873,972

; CURRENT FILING DATE: 2004-06-22

; PRIOR APPLICATION NUMBER: US 60/480,652

; PRIOR FILING DATE: 2003-06-23

; PRIOR APPLICATION NUMBER: US 10/084,298

; PRIOR FILING DATE: 2002-02-25

; PRIOR APPLICATION NUMBER: US 60/270,823

; PRIOR FILING DATE: 2001-02-23

; PRIOR APPLICATION NUMBER: US 60/281,353

; PRIOR FILING DATE: 2001-04-03

; NUMBER OF SEQ ID NOS: 10

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 3

; LENGTH: 1166

; TYPE: DNA

; ORGANISM: Mus musculus

US-10-873-972-3

Query Match 8.0%; Score 598.2; DB 8; Length 1166;
Best Local Similarity 99.5%; Pred. No. 4.6e-125;
Matches 600; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 6535 ATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGACCTGCTGTTATGTC 6594
Db 533 AAAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACCTGACCTGCTGTTATGTC 592
Qy 6595 TCTGAGAAATGCTTGGCTCTGAGCGAGAAGAGCTAGAAAACGAAGAACTGCTCCTTCT 6654
Db 593 TCTGAGAAATGCTTGGCTCTGAGCGAGAAGAGCTAGAAAACGAAGAACTGCTCCTTCT 652
Qy 6655 GCCTTCTAAAGAACAAATAGATCCCTGATGACCTTTTACTAAAGAAAGTGAGAA 6714

Db	653	GCCTTCTAAAAGAACAATAGATCCCTGATGGACTTTTTTTTACTAAAGGAAAGTGAGAA	712
Qy	6715	GCTAAACGTCCATCATCATTAGAAGATTTCACATGAACCTGGCTCAGTTCGAAAAAGAAA	6774
Db	713	GCTAACGTCCATCATCATTTATTAGAAGATTTCACATGAACCTGGCTCAGTTCGAAAAAGAAA	772
Qy	6775	TAGTGTCAAGTGTGTCCATGAGACAGAGGTAGACTTCGATAACCAACAAGAGATTCAATGACA	6834
Db	773	TAGTGTCAAGTGTGTCCATGAGACAGAGGTAGACTTCGATAACCAACAAGATTCAATGACA	832
Qy	6835	ATATTTTATTGTCTACTGATGATCAACAGAAAAATAATGTACTTTAAAAAATTTGTTTGAA	6894
Db	833	ATATTTTATTGTCTACTGATGATCAACAGAAAAATAATGTACTTTAAAAAATTTGTTTGAA	892
Qy	6895	AGGAGGTTTACCTCTCATTTCCCTTTAGAAAAAAGCTTATGTAACTTTCATTTCCCATATCCAA	6954
Db	893	AGGAGGTTTACCTCTCATTTCCCTTTAGAAAAAAGCTTATGTAACTTTCATTTCCCATATCCAA	952
Qy	6955	TATTTTATATATGTAAGTTTATTTATTATATAGTATACATTTTATTTATGTCAAGTTTATTA	7014
Db	953	TATTTTATATATGTAAGTTTATTTATTATATAGTATACATTTTATTTATGTCAAGTTTATTA	1012
Qy	7015	ATATGGATTTATTTTATAGAACATTAATCTGCTATTGTATATTAGTATAAGGCAAAATAA	7074
Db	1013	ATATGGATTTATTTTATAGAACATTAATCTGCTATTGTATATTAGTATAAGGCAAAATAA	1072
Qy	7075	TTTATGACAATAACTATGGAACCAAGATATCTTAGGCTTTTAAATAAACAACATGGATATCAT	7134
Db	1073	TTTATGACAATAACTATGGAACCAAGATATCTTAGGCTTTTAAATAAACAACATGGATATCAT	1132
Qy	7135	AAA 7137	
Db	1133	AAA 1135	

RESULT 12
US-11-157-387-3
; Sequence 3, Application US/11157387
; Publication NO. US20050238648A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: Pittman, Debra
; APPLICANT: Fouser, Lynette
; APPLICANT: Spaulding, Vikki
; APPLICANT: Xuan, Dejun
; TITLE OF INVENTION: Composition and Method for Treating Inflammatory
; FILE OF INVENTION: Disorders
; FILE REFERENCE: G15358 CIP
; CURRENT APPLICATION NUMBER: US/11/157,387
; CURRENT FILING DATE: 2005-06-20
; PRIOR APPLICATION NUMBER: US/10/084,298
; PRIOR FILING DATE: 2002-09-10
; PRIOR APPLICATION NUMBER: 60/270,823
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/281,353
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: 60/131,473
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/561,811
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 3
; LENGTH: 1166
; TYPE: DNA
; ORGANISM: Murine
US-11-157-387-3

Qy	6535	ATAGCTGGAGAGAGTGGAGAGATCAAGGCGATTGGGAACTGGACTGCTGTTTATGTC	6599
Db	533	AAAGCTTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGAACTGGACTGCTGTTTATGTC	592
Qy	6595	TCTGAGAAATGCTTTGGCTCTGACGCGAGAGCAAGCTAGAAAAACGAAGAACTGCTCCTTCCCT	6654
Db	593	TCTGAGAAATGCTTTGGCTCTGACGCGAGAGAGCAAGCTAGAAAAACGAAGAACTGCTCCTTCCCT	652
Qy	6655	GCCTTCTAAAAAGAACCAATTAAGATCCCTGAAATGGACCTTTTTTACTAAAGGAAAGTGAGAA	6714
Db	653	GCCTTCTAAAAAGAACCAATTAAGATCCCTGAAATGGACCTTTTTTACTAAAGGAAAGTGAGAA	712
Qy	6715	GCTTAACGTCATCATCATTTAGAGATTTTCACATGAAACCTGGCTCAGTTGAAAAAGBAAA	6774
Db	713	GCTTAACGTCATCATCATTTAGAGATTTTCACATGAAACCTGGCTCAGTTGAAAAAGBAAA	772
Qy	6775	TAGTGTCAAAGTTGTCCATGAGACAGAGGTAGACTCTGATAAACCAAAAGATTTCATTGACA	6834
Db	773	TAGTGTCAAAGTTGTCCATGAGACAGAGGTAGACTCTGATAAACCAAAAGATTTCATTGACA	833
Qy	6835	ATATTTTATTTGTCATCTGATGATCAACACAGAAAAATAATGTACTTTAAAAAATTTGTTGAA	6894
Db	833	ATATTTTATTTGTCATCTGATGATCAACACAGAAAAATAATGTACTTTAAAAAATTTGTTGAA	892
Qy	6895	AGGAGGTTACCTCTCATCTCTCTTTTAGAAAAAAGCTTATGTAACTTCATTTCCATATCCAA	6954
Db	893	AGGAGGTTACCTCTCATCTCTCTTTTAGAAAAAAGCTTATGTAACTTCATTTCCATATCCAA	952
Qy	6955	TATTTTATATATGTAAAGTTTATTTATTTAAGTATACATTTTATTTATGTCAAGTTTATTA	7014
Db	953	TATTTTATATATGTAAAGTTTATTTATTTAAGTATACATTTTATTTATGTCAAGTTTATTA	1012
Qy	7015	ATATGGATTTATTTATAGAAACATTATCTGCTATTGTATTTAGTATTAAGGCAATTAATA	7074
Db	1013	ATATGGATTTATTTATAGAAACATTATCTGCTATTGTATTTAGTATTAAGGCAATTAATA	1072
Qy	7075	TTTATGACAATAACTATGAGAAAACAAGATATCTTAGGCTTTTAATAAACACATGGATATCAT	7134
Db	1073	TTTATGACAATAACTATGAGAAAACAAGATATCTTAGGCTTTTAATAAACACATGGATATCAT	1132
Qy	7135	AAA 7137	
Db	1133	AAA 1135	
RESULT 13			
US-09-751-797-9			
; Sequence 9, Application US/09751797			
; Patent No. US20010024652A1			
; GENERAL INFORMATION:			
; APPLICANT: Dumoutier, Laure			
; APPLICANT: Louhed, Jamila			
; APPLICANT: Renaud, Jean-Christophe			
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Induc			
; TITLE OF INVENTION: (TIPIs) The Proteins Encoded, and Uses Thereof			
; FILE REFERENCE: LUD 5543.2			
; CURRENT APPLICATION NUMBER: US/09/751,797			
; PRIOR FILING DATE: 2000-12-29			
; PRIOR APPLICATION NUMBER: 09/419,568			
; PRIOR FILING DATE: 1999-10-18			
; PRIOR APPLICATION NUMBER: US09/178,973			
; PRIOR FILING DATE: 1998-10-26			
; NUMBER OF SEQ ID NOS: 29			
; SEQ ID NO 9			
; LENGTH: 1111			
; TYPE: DNA			
; ORGANISM: Mus musculus			
; FEATURE:			
US-09-751-797-9			

; NAME/KEY: CDS
; LOCATION: (50)....(589)
US-10-090-365-40

Query Match 6.7%; Score 499; DB 5; Length 1050;
Best Local Similarity 96.1%; Pred. No. 1.7e-102;
Matches 522; Conservative 0; Mismatches 20; Indels 1; Gaps 1;

Qy	6535	ATAGCTTGGAGAGAGTGGAGAGATCAAGCGGATTTGGGGAACTGGACCTGCTGTTTATGTC	6594
Db	508	AAAGCTTGGAGAGAGCGAGAGATCAAGCGGATCGGGGAACTGGACCTGCTGTTTATGTC	567
Qy	6595	TCTCAGAAATGCTTTCGCTCTGAGCGAGAGAGCTAGAAACGAAAGAACTGCTCCTTCCT	6654
Db	568	TCTCAGAAATGCTTTCGCTCTGAGCGAGAGAGCTAGAAACGAAAGAACTGCTCCTTCCT	627
Qy	6655	GCCTTCTTAAAGAAACAATTAAGATCCCTGATGGACTTTTCTAAAGGAAAGTGAGAA	6714
Db	628	GCCTTCTTAAAGAAACAATTAAGATCCCTGATGGACTTTTCTAAAGGAAAGTGAGAA	687
Qy	6715	GCTAACGTCCATCATCATTTAGAAAGATTTCAATGAAACCTGGCTCAGTTGAAAGAA	6774
Db	688	GCTAACGTCCATCATCATTTAGAAAGATTTCAATGAAACCTGGCTCAGTTGAAAGAA	747
Qy	6775	TAGTGTCAAGTTGTCCATGAGACGAGAGGTAGACTTGTAAACCAAGATTCATTGACA	6834
Db	748	TAGTGTCAAGTTGTCCATGAGACGAGAGGTAGACTTGTAAACCAAGATTCATTGACA	807
Qy	6835	ATATTTTATTTGTCACCTGATGATACACAGAAAAATAATGTACTTTAAAAAATGTTTGA	6894
Db	808	ATATTTTATTTGTCACCTGATGATACACAGAAAAATAATGTACTTTAAAAAATGTTTGA	867
Qy	6895	AGGAGGTACCTCTCATTTCTTTAGAAAAAAGCTTATGTAACCTTCCATATCCAA	6954
Db	868	AGGAGGTACCTCTCATTTCTTTAGAAAAAAGCTTATGTAACCTTCCATATCCAA	927
Qy	6955	TATTTTATATATGTAAGTTTATTTATTTATATAGTATACATTTTATTTATGTCAGTTTATTA	7014
Db	928	TATTTTATATATGTAAGTTTATTTATTTATATAGTATACATTTTATTTATGTCAGTTTATTA	987
Qy	7015	ATATGGATTTTATTTATAGAAACATTTCTGCTATTGATATTT-AGTATAAGGCAAAATAAT	7073
Db	988	ATATGGATTTTATTTATAGAAAAATTAATCTGATGTTGATATTTTGAGTATAAGCAAAATAAT	1047
Qy	7074	ATT 7076	
Db	1048	ATT 1050	

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Job time : 3788.38 secs

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OM nucleic - nucleic search, using sw model

Run on: December 20, 2005, 13:17:12 ; Search time 519.107 Seconds
(without alignments)
7442.822 Million cell updates/sec

Title: US-09-751-797-8
Perfect score: 7445
Sequence: 1 gctatcacctgcttaagat.....gattaattaattgtgtat 7445

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 4168288 seqs, 259477437 residues

Total number of hits satisfying chosen parameters: 8336576

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_NA_New.*
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2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
4: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
5: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
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8: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq2.*
9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq3.*
10: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	7441.8	100.0	7445	7 US-11-177-987-8	Sequence 8, Appli
2	4245.2	57.0	5935	7 US-11-177-987-42	Sequence 42, Appl
3	686	9.2	4797	7 US-11-177-987-26	Sequence 26, Appl
4	601.4	8.1	1119	7 US-11-177-987-7	Sequence 7, Appli
5	555.2	7.5	1111	7 US-11-177-987-9	Sequence 9, Appli
6	214.2	2.9	1152	7 US-11-102-240-153	Sequence 153, App
7	126	1.7	690	7 US-11-177-987-25	Sequence 25, Appl
8	122	1.6	418	7 US-11-177-987-18	Sequence 18, Appl
9	70	0.9	173995	6 US-10-995-561-13277	Sequence 13277, A
10	62.6	0.8	119036	6 US-10-995-561-13314	Sequence 13314, A
11	61.6	0.8	11462	7 US-11-140-417-22	Sequence 22, Appl
12	59.2	0.8	171936	6 US-10-933-025-24	Sequence 24, Appl
13	58.4	0.8	171486	7 US-11-121-086-105	Sequence 105, App
14	57.4	0.8	20317	6 US-10-995-561-13460	Sequence 13460, A
15	57.2	0.8	173602	7 US-11-121-086-25	Sequence 25, Appl
16	57.2	0.8	184868	7 US-11-121-086-88	Sequence 88, Appl
17	56.6	0.8	201990	6 US-10-995-561-13303	Sequence 13303, A
18	56.4	0.8	196	6 US-10-502-972-25	Sequence 25, Appl
19	56	0.8	49979	6 US-10-995-561-13443	Sequence 13443, A
20	56	0.8	171486	7 US-11-121-086-105	Sequence 105, App
21	54.8	0.7	431	7 US-11-108-172-584	Sequence 584, App
22	54.8	0.7	1652	7 US-11-159-516A-28	Sequence 28, Appl
23	54	0.7	139054	7 US-11-121-086-96	Sequence 96, Appl

ALIGNMENTS

RESULT 1

US-11-177-987-8
; Sequence 8, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/11/177,987
; PRIOR FILING DATE: 2005-07-27
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 8
; LENGTH: 7445
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-11-177-987-8
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Best Local Similarity 100.0%; Pred. No. 0;
Matches 7443; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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Qy 6361 TTGGGCAAAATCATATTTACTCATGCTTAAATAACATTTATGTTGATTTAATCTTTTAG 6420
Db 6361 TTGGGCAAAATCATATTTACTCATGCTTAAATAACATTTATGTTGATTTAATCTTTTAG 6420
Qy 6421 AGRAGGCTGATCTTGGTGTCTCAGCAAGCAAAATGTCACAGCTCTTTCTTAACTG 6480
Db 6421 AGRAGGCTGATCTTGGTGTCTCAGCAAGCAAAATGTCACAGCTCTTTCTTAACTG 6480
Qy 6481 GTACCACTTTAGAAAAATGCTACCTGTCTCAAAATGGTGTGATTTCTTATTTTATAGCT 6540
Db 6481 GTACCACTTTAGAAAAATGCTACCTGTCTCAAAATGGTGTGATTTCTTATTTTATAGCT 6540
Qy 6541 TGGAGAGAGTGGAGAGATCAAGGCGATTTGGGGAACCTGCACTGCTGTTTATGTCTCTGAG 6600
Db 6541 TGGAGAGAGTGGAGAGATCAAGGCGATTTGGGGAACCTGCACTGCTGTTTATGTCTCTGAG 6600
Qy 6601 AAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAGAACTGCTCTTCTTCCCTTC 6660
Db 6601 AAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAGAACTGCTCTTCTTCCCTTC 6660
Qy 6661 TAAAAAGAAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAGCTAAC 6720
Db 6661 TAAAAAGAAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAGCTAAC 6720
Qy 6721 GTCCATCATCATTTAGAGATTTACATGAAACCTTGGCTCAGTTGAAAAAGAAAAATAGTGT 6780
Db 6721 GTCCATCATCATTTAGAGATTTTACATGAAACCTTGGCTCAGTTGAAAAAGAAAAATAGTGT 6780

[illegible]

Db	2276	TTGGCAAGCCACAATTA	CTAAGCCATTCAGTAGAGACGTGGGGATTTCTTTCTCTGCTTC	2333		
Qy	4063	CCAGTCCCTCTACTTTGTAAACA	TTTTATTTTGA	CTTGTCTACTPATCTGFPCCATTA	CTCG	4122
Db	2336	CCAGTCTCTTACTTTGTAAACA	TTTTTCTTTGACTTGTCTACTGTCTGGTCCATTA	CTCA	2395	
Qy	4123	CTTTAGCTGCACCTGTATCTAGCTGGGTCTATAGATCTTTTCAATCTGTGCTCTAAATTTGTA	4182			
Db	2396	CTTTAGCTGCACCTGTCATCTAGCTGGGTCTATAGATCTTTTCAATCTGTGCTCTAAATTTGTA	2455			
Qy	4183	AGTTCACAATTTCTGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCACTTGCTCG	4242			
Db	2456	AGTTCACAATTTCTGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCACTTGCTCG	2515			
Qy	4243	GAGGATGGCTTGTGCACAGAGTCAATGCTGAAGACAGCATCCCTGATTC	CCAGCTCTGCA	4302		
Db	2516	GAGGATGGCTTGTGCACAGAGTCAATGCTGAAGACAGCATCCCTGATTC	CCAGCTCTGCA	2575		
Qy	4303	CTTTGCCCTAGTGGCCATGTGTAAATTA	CTTTTGGCTTGTAAATTA	GTATTTTGGGAAAGCCAGTTTC	4362	
Db	2576	CTTTGCCCTAGTGGCCATGTGTAAATTA	CTTTTAGCCTGATTAATTTGGGAAAGCCAAATTC	2635		
Qy	4363	CCAGGACCTCATATATCTGAAGAACCATGCA	TTTGA	AACTAGAAAGCTGGGCACAACT	4422	
Db	2636	CCACCGACCTACATAATCCGAAGAAGCATGCA	TTGAA	AACTAGAAAGCTGGGCACAACT	2695	
Qy	4423	TACTAGAGATGATTTTTTGGACTCA	TTTAAACGGATGCTCTCAAAATGTGGCAAAATCAACCC	4482		
Db	2696	TACTAGAGATGATTTTTTGGACTCA	TTTAAACTGATGCTCTGAATGTGATCAAAATCAACCC	2755		
Qy	4483	AGAATAACAA	CAAAAGAGCTGGATTTTGCAAAATAGGACAAGTA	TTTGAATTCATCTG	GTATTC	4542
Db	2756	AGAATAACAA	CAAAAGAGCTGGATTTTGCAAAATAGGACAAGTA	TTTGAATTCATCTG	GTATTC	2815
Qy	4543	AATAGCTATCATCTTAATTTAAATATATAGG	CCCTATATA	----TATATTTTAAAGTATTAACA	4598	
Db	2816	AACAGCTGTGCATCTTAATTTAAATATATAGT	GTCTATTTAGCTGCTCTATTTAGAGATTTAAACA	2875		
Qy	4599	CAAGAGTGGATAGCCTCCCAATTTACTTTGCGCTGGTTTCA	AAAGAGTAAAAATATCAGTC	4658		
Db	2876	CAAGAGTGGATAGCTCCCAATTTACTTTGCGCTGGTTTCA	AAAGAGTAAAAATATCAGTC	2935		
Qy	4659	ATGGATTAATTTATAGTGTCTATGAAGATPACAGATGGA	AAACCCCTTTTCTTTACTTTTAACTTC	4718		
Db	2936	ATAGATTAATTTATAGTGTCTATGAAGATPACAGATGGA	AAACCCCTTTTCTTTACTTTTAACTTC	2995		
Qy	4719	TCATTTCTTAGT-----TTTTTTTTTTTCTTACACCCCTGATCA	AGCCCACTAGTAGACACCT	4773		
Db	2996	TCATTTCTTAGT-----TTTTTTTTTTTCTTACACCCCTGATCA	AGCCCACTAGTAGAGCACCT	3055		
Qy	4774	ATCTGCTGTAGCTATTATATGACTTTTACAGCAAAACAATG	CTGTGTGGCCCTCTTTGG	4833		
Db	3056	ATCTGCTGTAGCTATTATATGACTTTTACAGCAAAACAATG	CTGTGTGGCCCTCTTTGG	3115		
Qy	4834	GGAAAGGAAACAGGATAGCAGGAGCTCAGGCTAGCAAGTCT	-GACTTTGCCCTAAAGCCAG	4892		
Db	3116	GGAAAGGAAACAGGATAGCAGGAGCTCAGGCTAGCAAGTCT	-GACTTTGCCCTAAAGCCAG	3175		
Qy	4893	AGGCATGGTTGATAGCAGAAAGTGAAGGCTCTTTGCGAAGT	GTGGGTGCTTAAGTAATCA	4952		
Db	3176	AGGCATGGTTGATAGCAGAAAGTGAAGGCTCTTTCA	CAAGTGGGTGTGCTTAAGTAATCA	3235		
Qy	4953	GAACACGAGGCTCCGGTTGATCGGAATTA	TCAGTAAGATATCTACCCCTATCTC	5009		
Db	3236	GAACACGAGGCTCTGGTTGATCGGAATTA	TCAGTAAGATATCTACCCCTATCTC	3295		
Qy	5010	TCATATCGAAACCTAAATCGTCTCTTTTCTTTGTGTAGGCTGA	TAAACACACTTTGTTTC	5069		
Db	3296	TCATATAGACGCTAAACCGTCTCTCTCTTCTGTGTAGGCTGA	TAAACACACTTTGTTTC	3355		
Qy	5070	TTTTGAGTGTTTCATGGCTTTGTAGATTTTATAGTCTCTG	CCAGTTCCTTGTTAGAGGTTT	5129		
Db	3356	TTTTGAGTGTTTCATGGCTTTGTAGATTTTATAGTCTCTG	CCAGTTCCTTGTTAGAGGTTT	3415		

Db 5572 TTGTTTGAAGAGGTTACCTCTCATTTCTCTAGAGAAAGGCTATGTAACCTTCATTTTC 5631
Qy 6946 CATATCAATATTTATATATAGTAAGTTATTTATTAATAAGTATACATTTTATTTATGTC 7005
Db 5632 CATAAACCAATACCTTATATATATGTAAGTTATTTATTAATAAGTATACATTTTATTTATGTC 5691
Qy 7006 AGTTTATATATGGAATTTATATAGAAACATTTATCTGCTATGATATTTT-AGTATAAG 7064
Db 5692 AGTTTATATATGGAATTTATTTATAGAAAATTTATCTGATGTTGATATTTTGAGTATANA 5751
Qy 7065 GCAATAATATTTATGACATAACTATGGAACAAGATATCTTAGGCTTTTAATAAACA 7124
Db 5752 GCAATAATATTTATGATATACTATAGAAACAAGATATCTTAGGCTTTTAATAAACA 5811
Qy 7125 TGGATATCATAAATCTTCTGTCTTGTAAATTTTCTCCCTTTAATATCAACAATACCATCA 7184
Db 5812 TGAATATCATAAATCTTCTGTCTTGTAAATTTTCTCCCTTTAATATCAACAATACCATCA 5871
Qy 7185 TCATCATCATTTACCAATCATCTCATGATTTTCATGCTTGACCCATATTAATCTGTTAAA 7244
Db 5872 TCGTCATCATTTACCAATCATCTCATGACTTTCATGCTTGACTCATATTAATCTGGTAAAG 5931
Qy 7245 GTTG 7248
Db 5932 TTIG 5935
RESULT 3
US-11-177-987-26
; Sequence 26, Application US/11/177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 26
; LENGTH: 4797
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-11-177-987-26
Query Match 9.2%; Score 686; DB 7; Length 4797;
Best Local Similarity 53.8%; Pred. No. 3.7e-157;
Matches 2644; Conservative 0; Mismatches 1875; Indels 393; Gaps 44;
Qy 2034 CTCCTCTCACTTATCAACTGTGTGACACTTGTGCGATCTCTGATGGCTGTCTGCAGAA 2093
Db 29 CTCCTTCCCCAGTACACAGTTGCTCGAGTTAGAAATGTCTGAATGGCGCCCTGCAGAA 88
Qy 2094 ATCTATGAGTTTTCCTTATGGGACATTTGGCGCCAGCTGCCTGCTTCTCATTTGCCCT 2153
Db 89 ATCTGTAGCTTTTCTTATGGGACCTTGGCCACAGCTGCCTCTCTCTCTTCTTGGCCCT 148
Qy 2154 GTGGCCCGAGGAGGAATATGGCTGCCCGTCAACACCCGGTGCAGCTTGTAGTGTCAA 2213
Db 149 CTTGGTACAGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCGGCTTGAAGAATCCAA 208
Qy 2214 CTTCCAGCGCGTACATCGTCAACCGCACCTTTTATGCTGGCCCAAGGAGGTACAGCTGCA 2273

Db 209 CTTCCAGCGCGCTATATATCAACAACGCACTTTCATGCTGGCTAAGGAGGTATACATCTC 268
Qy 2274 TCTCTTTCTCTCATACCGCTTGGCATTTTCTCTAGACACTTTCGAACTCTTTAGGG 2333
Db 269 AATCTGCTCTTTCTCGTTGGATCTATCTGGAAATCCAAATAGTTCTTTAAACTTTTCTTCA 328
Qy 2334 CGCTTTATCTCCGAGGTCTCACTACCTATGTTT-----TCTGTCTCTTTAGAG 2382
Db 329 GAGCACTCTTAAGAGCTTTAGGAACCCACTGTTTATCCCTGAGGGTAGATAAATTTCTG 388
Qy 2383 ACTCTTTAAGAGCTGGGTCTTTTCTATTTTCAAGGTCTCAGGACCAATTTCTCTAT 2442
Db 389 TTTTTCAGAGACTCTTTGGGAATCTGGCTTTTTTTTTTCTTGAACCTCTTCTCCAT 448
Qy 2443 CTTGGGCTTCAGACACATATATGAATTTTATCTAAGAGGCGCATTT--AGAAAGCCA 2500
Db 449 TTTGGGCTTTATGATACATATGATGAATTTTCCAAAGAGCGGCCATTCAGTAATCCAT 508
Qy 2501 CCCAGGACTGCAATCTTTCCATTTCTCTGCTCTCTCTGAACTCATACTCTCTTTGGC 2560
Db 509 CTGATGATTTTTTTTCTTTATGCCCTCTGTGCAATTTCTTAACTCATGACACATCTG 568
Qy 2561 TACTC-----CTGAGACCCACTGCGGACATACATCTCTCTAC 2595
Db 569 AATCTGCTTTTAGTCTTTATGATGTTGCTCTGGGAGACGGGATGGGCACATGTTCTAT 628
Qy 2596 TTACAGGCTTTTCTTCATCTCTTGTACCGAGGCACTTAGGGTTTTC-TCTCTTTTCTAG 2654
Db 629 GTATAAATTTTTTTCTTATTTGCTCAATGTCCAGACCTTAGTCTTTTCTCTCTCCAG 688
Qy 2655 GCAGGCTTCAGATACAAACACAGCGTCCGGCTCATCGGGAGAACTTGTTCGAGGA 2714
Db 689 GCTAGCTTGGCTGATAAACAACACAGCTTCTCATTTGGGGAGAACTGTTTCCAGGA 748
Qy 2715 GTCAGTCTAAGTCTCTCACTGTGATGACAGGCG-----TAGCTGCGGAGCT 2761
Db 749 GTCAGTCTAAGTCTACAGTTGTGACGACAGGCGGTGCGCTCCATGGGTACTTTGGGT 808
Qy 2762 GGTGACCCCTCTGGGATAG-----TCTGACGTATGACCCCTGCTGCTTCTGTCTACCTGC 2817
Db 809 GGTGCTGATGATGGTTTAGGTCTTATCCCTTATGACCCCTTCTGTTTTCCCTTCCACCTGC 868
Qy 2818 AGGCTAAGATCAGTCTACTGATGAAGCAGGTGCTCAACTTCCACCTGGAAGAGTTC 2877
Db 869 AGATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTGAATTCACCTTGAAGAGTGC 928
Qy 2878 TGCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGACGAGGAGGTGATACCTTTCCTGACCA 2937
Db 929 TGTTCCTCTCAATCTGATAGGTTCCAGCTTATATGACGAGGAGTGTGCTTCTGCGCA 988
Qy 2938 AACTCAGCAATCAGCTCAGCTCCTGTGTAGTCTGACTCTGGCTACCTATGCTCTCTCT 2997
Db 989 GGCTCAGCAACAGGCTAAGCACATGTGTAGTTTCAAGCTCTCAGCTTATGCCCACCTACCC 1048
Qy 2998 CTTTCTCTTATTTCCAGTAAGAACCCGAGGTCTGCGCTCTCTCTCTTCAAGAGTGA 3057
Db 1049 CTCCTTCCCTCTTCCACAGAGACCCCTTACCCCAACTCTCTCTCTTCCCTTCCCTACCCC 1108
Qy 3058 GGAGGGCTCAGCACACCACCATCATAGGCCACTTGAANAATGAGTTCAGAAAGGCTTTGGC 3117
Db 1109 TAAGCTAGCAGGAAGAAGTGTCTTGGCAGCAGTGTATCAGGAGTCA-----TTTGGG 1161
Qy 3118 TTCAATTTAGTAAATACATTTTGTAGTTTGTATGATGAAGCTTTATTTGTTTATTCATGAA 3177
Db 1162 ATCATAGAGTATTTGCTTTTGTGCTTTTGTAGTCAATCTTTGAGTTTATAGTGTGTAATG 1221
Qy 3178 AGAATCAACTCAATTTCTGTAGGATGAGAAAGATGTTGGGAACGAAAGAGGCTAGAT 3237
Db 1222 GGGTCTGGAACTTAAGTGTACAGAAAGCGCATTTGGTTTGTCTTTCGAAAAAAGCAACTC 1281
Qy 3238 AGAGAAACAGATCTGCTGAGTATAGTACTTATGCGGGGAGAGGGGGCGATATCCACTGA 3297

1282 A-----GGTTGCGTAAGATGAGAAAGGCTGTGG 1309 Db
3298 GTACAAAGTACTTGTGGGAGAGAAATCCACTAGTACAAAGTACTTGTGGCATGGAGATC 3357 Qy
1310 GAAAAATCTAGCTGTGGAAATGGATCCATTTAGTCTAAGTTCTGTAGGGGAGGGATGG 1369 Db
3358 CACTGAGTACAAAGTACTTGTGGGGGAGGGAATGGACAGACAGAAAGTTGAAGGAGAGG 3417 Qy
1370 CATGGAGAGAAATTTAGAAGAGAAAGTGGGAAATGGGAAGGCTTTAAA----- 1415 Db
3418 AAGATGGAGAGGCTCATGCTGTGGGGGTGTGAAGGTCACTCTCTTTCCATGTGATGGAG 3477 Qy
1416 -----GTGCGTGTGGGTGGGAGAGTGTGGCCCTGTGTGATGTCATGGGA 1460 Db
3478 AGTTAAGAAAAACCA--GTGTGTGAGTTTGTAGTCTTTCAGACACCCCAACTATGAACAT 3536 Qy
1461 AGCCACAAATCGAGGCGTGTGAATTTGATGCGCGTGAACATTTGAAACTATGAAAAA 1520 Db
3537 ATCCAGAGAGCGGCGAGACTGTGGGAGACCTGGGCAATTTAGGGAAGGCGC--GGCTTTT 3594 Qy
1521 AGTTTGAGTGGAGTGGGCCCAAGAAAGGCCCTAGGACTTTACTGAAGAGGGCTTAATTTT 1580 Db
3595 CACACAGAAACTTTATGCTCATCTCTGTGCTACACTCCCACTTTGATGAGGTTTCAGC 3654 Qy
1581 CACATGAGATGTTTATGTACATTTCTTGTCTAAGCATGCAATTTTCTGGAGATAGAT 1640 Db
3655 TCAGGTTTCGTTCT-----ACCGTTCTGTCTACTGTGGAAAC 3693 Qy
1641 TGAGGTTTATTCCTTACAGAAATTTGCATAAATCTCCGCTCTTCCACAAATGCAAC 1700 Db
3694 TTCAGTAGGATTTCCCAAGACAGGACAGCTCTTCTGTAAAGGAGGACCTGGATTTCA 3753 Qy
1701 CTCAGTAGGATTTCCCAAGATGAAGAGAGGTCTCTTGTAAAGGAAGTGAAGTGGATTCG 1760 Db
3754 GTGTCCTAGAGAAAGTACTCAGAGATCTAGTCAAGTGAATCTAGTTCAGC 3813 Qy
1761 GCSTCCAAAGGAATTCAGAGCTCAGGAATCTAGGTCACTGTGTGAATCTAGGTCATTG 1820 Db
3814 GGCAGAAATGACTGAAGCGCTCTATTCAGAGTGAACGGTCAAGTGCCTCAGATATACG 3873 Qy
1821 TGGGCAAAATTAAGAGCTTAAATTCAGAGTGAATTTGACTGTACCTCCATGGGTGG 1880 Db
3874 AGGTATTTGGGCTCCACCGGATAGATTTCTGTAGTGA--GTCTGCTTTTATTTTGCAGCA 3932 Qy
1881 GAGTTTCATAAAGTTTCAGCACAAATTTAAGATAGTTATGCTGTTATTTTATAGCA 1940 Db
3933 CATTACGGGTGACACAGCAAAATCCAGAAATGTGCAAGGCTGAAGAGACAGTGAA 3992 Qy
1941 TATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAGGACACAGTGA 2000 Db
3993 AAGGTACTATTGGCAAGCCACAAATCTAAGCCATTCAGTAG--GAGACGTGGGGATTC 4050 Qy
2001 AAGGTAGGACTGATACTGCAATGCTAAGTCAATGATGCAATAGGAGACAAATTTGTTT 2060 Db
4051 TTTCTGCTGCCAGTCCCTTCTACTTTGTATCAATTTTATTTGACTTTGTCTACTATCTG 4110 Qy
2061 TTCTTTCTTTCTTTCTCCATCATCTTGTGATTTTCTACTGATTTCTCTACCACAG 2120 Db
4111 GTCCATPACTCGTTAGCTGCACCTGPACTAGCTGGGTTCTATAGATCTTTTCAATCTGTG 4170 Qy
2121 GGGGATTA-----CTTTGGTGTGTGTATGTAGATATATCTATATCTAGATGTCAAGTT 2176 Db
4171 TCTAAATTT---GTAAGTCAATTTCTGGAGCTAGCAGAAAGCTTAGCTCAGCCGCTC 4227 Qy
2177 TCCAAATCTTGCATAATTTGTAGAATTTAGAACTGGTTGGGATCTTAGCTTGTCTAGTFCAC 2236 Db
4228 ATGAGCACTTGTCTGGAGGATGGCTGTGACAGAGTCAATGCTAGAGACAGCATCCCTG 4287 Qy
2237 ATACCTCAGATTCGCGGATGGTCACTGGCAGAGATAGGGCTAGATGAGGCTCTCTG 2296 Db
4288 ATTCACAGCTCTGCAC--TTGCCCTAGTGGCCATGTGTAATTTACTTTGGCTTGAATAGTAT 4346 Qy
2297 AATCCCAAGCAGCACCTTTTCCCGGTGGTGATACAGATTAGTTTGTGGTACCATTAATTTCT 2356 Db

4347 TTGGGAAA--GCCAGTTTCCACGGACCTACATAATCTGAAGAACCAATGCAATTCGAAACTA 4404 Qy
2357 TAGGGAAATTTTCAGATTTCTTATGACTCATGTAATCTGAAGAGTACTTGTGTTTAAACA 2416 Db
4405 GAAAGCTGGGCA-----CAAACCTTACTAGAGATGATTTTGTAGCTCAATTAACCGATGCTC 4460 Qy
2417 GAAATGCTATGGGCAATTTTATTTGAGTCAATTTTGAAGTCAATTAATGATGCTT 2476 Db
4461 TGAATGTGGCAAAATCAACCCAGAAATAACAACAAAGAGCTGGATTTGCAATAGGACA 4520 Qy
2477 TGAACCTTGGAGAAATAAATCAGAACATGAGAAAGAGCTGGACTTGCATATAGGCT 2536 Db
4521 AGTATTTGAATCAGCTGGTATTAATAGCTATCATCTTAATTAATAATATAGGGCTATATA 4580 Qy
2537 AATTTCTGGA-----GTAATAAACACATTAATTTGAATATCATATATCTATCAGATA 2589 Db
4581 TATATTTAGATTAACACAGAGTGGATAGCTCCCAATTTACTTGGCTGTGTTTCAAA 4640 Qy
2590 TTGATTTATAGTTTAAAGCAAGAGCAGACAAC--CCGATCTCTTTTATACAGGTTCAAT 2648 Db
4641 AGAGTAAAAATATCAGTCATGGAATTAATATAGTGTCAAGAAAGTATGAGATGGAACCC 4700 Qy
2649 AGAGTAAAAATATAGTAGAGATTTTATATAGTTAAATGGAAGTCTGAATGTAAGCT 2708 Db
4701 TTTCTTACTTTTACCTTCA-----TTTCTTAGTTTCTTTTCTTTTCTTCAACCTGA 4752 Qy
2709 TTTTCTTCTCTCTCTCCATCAAGACCTTCCATTTAGTTTCTTCTTCTTCTTCACTCCCTCA 2768 Db
4753 TCAGGCCACTAGTAGACACTATCTCTGTGAGCTATATATGACTTTTACAGCAACAAC 4812 Qy
2769 ACAATCTCTTGGGAGCTTTATCCATGTTGGGCTGGTGTACATTTCTATAGTGAATGAT 2828 Db
4813 ATTGCTGTGGGCTCTTTGGGGAAGGGAACAGGATAGCAGGAGGCTCAGGCTAGCAAGT 4872 Qy
2829 ACCATCATGTGGCTATTTTGGTGAAGAAACA--ACAATGGAAGGCTTAGACTTAACAATA 2886 Db
4873 CTGACTTGGCTTAAAGCCAGAGCATGTTGTATAGCAGAGAAAGTGAAGGCTTCTTCGCAAG 4932 Qy
2887 GTGACTCACCCCAAAACCGAGGAATGATTAGGAGCAGTGAAGTGAAGTGAAGTGAACNA 2945 Db
4933 TGGGTGTCTTAAGTAATCAGAAACAGGAAGGCTCCGGTTGATGGAATATCATAGTAAAG - 4991 Qy
2946 CAGGTACAATAAATCTCAGAAACATGAAGGCTCCAGTTGATGGAATTTTTCAGTAAACNA 3005 Db
4992 -----TATCTACCTTATCTCTCTATCGAACCTAAATCGTCTCTTTTCTTGTG 5042 Qy
3006 GCTTAACTTTAATTTCCCTTTTCCCTCTTGAATTTTAAAGAGGTTTCTTCTGAG 3065 Db
5043 TGTAGGCTGATAAACACACTTGT--TTCTTTTGTAGTGTTCATGGCTTTGTAGATTTTA 5100 Qy
3066 CATCATTTAATGAGTGTGACTGTTCTTCTTTGATAATTTGAAGGCTTCTGTAGTTTAA 3125 Db
5101 GTGCTCTGCCAGTCTTGT--TAGAGGTTTGTGTACCTTGACACCTGGGCTTGGATGTTA 5158 Qy
3126 TTGTGAAGCCAGTCTCTTGTGTATAGAACTATATCTAGACATGAGGAGGCTGAATGTTA 3185 Db
5159 GCATGCCAAAGGCACACACTTCTGATGCTGTGTAAGGTTTATTTATTTACTTACT-- 5215 Qy
3186 GCATGCCACAGACAGGCAATGCTTTTACATCTTGTCTTAAATAATTTACTGATTTCACTT 3245 Db
5216 -----TTGTCTTTGGAAGGTGAAGGCTGTGAGAAAGAACTCACAGGAGATGTGTCT 5270 Qy
3246 GCTTGTGTTTGTAGAAAGTGAAGTGTGAGAGGAGGATCTCATGTTGA----- 3296 Db
5271 CTGTAGGAAAACTTTTTTTTCCCTTAAATGCTATAATCCACTTTCACTCA--ACTT 5327 Qy
3297 -----TCTGTGTGATTTTCAAGACCTTTAATCCATTTTGAAGAATCAAT 3342 Db
5328 TGACTTTTATACCATGCTGTACATGAAGAGGTTTAGCCCGCTCTCATGCTCTGGG 5387 Qy
3343 TCATATTTGCAATGGGTGCAATGTGGAAGAGTGAATATGCTTTTGTGCTGAGTTCATCA 3402 Db

Db 750 TAGTGTCAAGTTGTCATGACAGACAGAGGTAGACTTGCATTAACCAAGAAATTCATTGACA 809
Qy 6835 ATATTTTATTTGCTACTGATGATACAAACAGAAAAATAATGACTTTTAAAAAATTTGTTGAA 6894
Db 810 ATATTTTATTTGCTACTGATGATACAAACAGAAAAATAATGACTTTTAAAAAATTTGTTGAA 869
Qy 6895 AGAGGTTTACCTCTCATCTCTTTAGAAAAAAGCTTAAGTAACCTTTCCATATCCAA 6954
Db 870 AGAGGTTTACCTCTCATCTCTTTAGAAAAAAGCTTAAGTAACCTTTCCATATCCAA 929
Qy 6955 TATTTTATATATGTAAGCTTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 7014
Db 930 TATTTTATATATGTAAGCTTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 989
Qy 7015 ATATGGAATTTATTTATAGAAACATTTCTGCTATTGATATTTAGTATAAGGCAAAATAA 7074
Db 990 ATATGGAATTTATTTATAGAAACATTTCTGCTATTGATATTTAGTATAAGGCAAAATAA 1049
Qy 7075 TTTATGACAATACTATGGAACCAAGATATCTTAGGCTTTTAAATAAACACATGGATATCAT 7134
Db 1050 TTTATGACAATACTATGGAACCAAGATATCTTAGGCTTTTAAATAAACACATGGATATCAT 1109
Qy 7135 AAA 7137
Db 1110 AAA 1112

RESULT 5
US-11-177-987-9
; Sequence 9, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; PRIOR FILING DATE: 2005-07-07
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/626,617
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-11-177-987-9

Query Match 7.5%; Score 555.2; DB 7; Length 1111;
Best Local Similarity 96.0%; Pred. No. 1.3e-125;
Matches 580; Conservative 0; Mismatches 23; Indels 1; Gaps 1;

Qy 6535 ATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC 6594
Db 508 AAAGCTTGGAGAGAGCGAGAGATCAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC 567
Qy 6595 TCTGAGAAATGCTTGGCTCTGAGGGAAGAGCTAGAAAACGAAAGACTGCTCTTCCT 6654
Db 568 TCTGAGAAATGCTTGGCTCTGAGGGAAGAGCTAGAAAACGAAAGACTGCTCTTCCT 627
Qy 6655 GCCTTCTTAAAGAAACAAATAAGATCCCTGAATGACCTTTTAAAGGAAAGAGTGAGAA 6714
Db 628 GCCTTCTTAAAGAAACAAATAAGATCCCTGAATGACCTTTTAAAGGAAAGTGAGAA 687
Qy 6715 GCTAACGCTCCATCATATTAGAAGATTTTCATGAAACCTGGCTCAGTTGAAAAAGAAAA 6774

Db 688 GCTAACGCTCCACCATCATTTAGAAGATTTTCATGAAACCTGGCTCAGTTGAAAGAGAAAA 747
Qy 6775 TAGTGTCAAGTTGTCATGACAGACAGAGGTAGACTTGCATTAACCAAGAAATTCATTGACA 6834
Db 748 TAGTGTCAAGTTGTCATGACAGACAGAGGTAGACTTGCATTAACCAAGAAATTCATTGACA 807
Qy 6835 ATATTTTATTTGCTACTGATGATACAAACAGAAAAATAATGACTTTTAAAAAATTTGTTGAA 6894
Db 808 ATATTTTATTTGCTACTGATGATACAAACAGAAAAATAATGACTTTTAAAAAATTTGTTGAA 867
Qy 6895 AGAGGTTTACCTCTCATCTCTTTAGAAAAAAGCTTAAGTAACCTTTCCATATCCAA 6954
Db 868 AGAGGTTTACCTCTCATCTCTTTAGAAAAAAGCTTAAGTAACCTTTCCATATCCAA 927
Qy 6955 TATTTTATATATGTAAGCTTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 7014
Db 928 TACTTTATATATGTAAGCTTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 987
Qy 7015 ATATGGAATTTATTTATAGAAACATTTCTGCTATTGATATTTAGTATAAGGCAAAATAA 7073
Db 988 ATATGGAATTTATTTATAGAAACATTTCTGCTATTGATATTTAGTATAAGGCAAAATAA 1047
Qy 7074 ATTTATGACAATACTATGGAACCAAGATATCTTAGGCTTTTAAATAAACACATGGATATCA 7133
Db 1048 ATTTATGACAATACTATGGAACCAAGATATCTTAGGCTTTTAAATAAACACATGGATATCA 1107
Qy 7134 TAAA 7137
Db 1108 TAAA 1111

RESULT 6
US-11-102-240-153
; Sequence 153, Application US/11102240
; Publication No. US20050260647A1
; GENERAL INFORMATION:
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: ANTIBODIES TO POLYPEPTIDES ENCODED BY A NUCLEIC ACID UNDEREXPRESS
; TITLE OF INVENTION: ESOPHAGEAL TUMOR
; FILE REFERENCE: P3230R1C106C
; CURRENT APPLICATION NUMBER: US/11/102,240
; CURRENT FILING DATE: 2005-04-08
; PRIOR APPLICATION NUMBER: 10/063662
; PRIOR FILING DATE: 2002-05-07
; PRIOR APPLICATION NUMBER: 10/006867
; PRIOR FILING DATE: 2001-12-06
; PRIOR APPLICATION NUMBER: PCT/US00/23328
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: 60/170262
; PRIOR FILING DATE: 199-12-09
; NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 153
; LENGTH: 1152
; TYPE: DNA
; ORGANISM: Homo Sapien
US-11-102-240-153

Query Match 2.9%; Score 214.2; DB 7; Length 1152;
Best Local Similarity 70.9%; Pred. No. 2.8e-42;
Matches 450; Conservative 0; Mismatches 148; Indels 37; Gaps 11;

Qy 6535 ATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC 6594
Db 516 AAAGCTTGGAGAGAGTGGAGAGATCAAGCAATTTGGAGAACTGGATTTGCTGTTTATGTC 575
Qy 6595 TCTGAGAAATGCTTGGCTCTGAGGGAAGAGACTAGAAAACGAAAGACTGCTCTTCCT 6654
Db 576 TCTGAGAAATGCTTGGCTCTGAGGGAAGAGACTAGAAAACGAAAGACTGCTCTTCCT 635

QY 6655 GCCTTCTAAAGAGCAATTAAGATCCCTGAATGACCTTTT-----ACTAAAGGAAGTG 6710
DB 636 CCCTGCTAGAAATAACAATTAGATGCCCCCAAGCGATTTTTTTTAAACAAAGGAAGATG 695
QY 6711 AGAAGCTAAACGTCATCATCATATAGAGATTTACATGAACCTGGCTCAGTTTGAAAAAG 6770
DB 696 GGAAGCCAACTCATCATCATGATGGGTGATTCGAATGAACCCCTGGTTAGTTACAAAG 755
QY 6771 AAAATAGTGCAA--GTGTCCATGAGACCGAG-AGGTAGACTTGATTAACCAAGATTC 6827
DB 756 GAAACCAATGCCACTTTTGTGTTATAAGACCAAGAGGTAGACTTTCTTAAGCATAGATATT 815
QY 6828 ATTGACAAATTTTATTGTCACTGATG-----ATACACAGAAAATAATGACTTTTAAA 6883
DB 816 ATTGATAACATTTTCATTGTAACTGGTGTCTATACAGAAAACAATTTATTTTAAAT 875
QY 6884 AATTGTTT-----GAAAGGAGGTACTCTCATCTCTTTA---GAAAAAAGCTTATG 6933
DB 876 AATTGCTTTTCCATAAAGAAATTAATCTTCCATTCCTTTAGGGGAAAAACCCCTAAA 935
QY 6934 TAACTTCA--TTTCCATATCCAATTTTATATATGTAAGTTTATTTATTATTAAGTATA- 6990
DB 936 TAGCTTCATGTTTCCATAATCAGTACTTATATTTATAAATGTATTTATTATTATTATA 995
QY 6991 -----CATTTTATTATGTGAGTTTATTAATATGATTTATTATAGAAACATTTATCG 7045
DB 996 GACTGCAATTTTATTATATATCATTTTATTAATATGATTTTATTATAGAAACATTCGA 1055
QY 7046 TATTGATA-TTTAGTATAAGCAATA--ATATTTATGACATAAATCTATGG-----AAAC 7097
DB 1056 TATTGCTACTTGATGTAAGCTAATATGTAATTTATGACAAATATATAGACTATA 1115
QY 7098 AAGATATCTTAGGCTTTTAATAAACACATGGATATC 7132
DB 1116 CATGTTTATTGACCTCAATAAACACTTGGATATC 1150

RESULT 7
US-11-177-987-25
; Sequence 25, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 25
; LENGTH: 690
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-11-177-987-25
Query Match 1.7%; Score 126; DB 7; Length 690;
Best Local Similarity 71.7%; Pred. No. 7.1e-21;
Matches 165; Conservative 0; Mismatches 65; Indels 0; Gaps 0;
QY 2034 CTCCTCTCACTATCAACTGTTGACACACTTGTGCGATCTCTGATGGCTGCTCGACGAA 2093
DB 29 CTCCTTCCCAGTCACGATGCTCGAGTTAGAAATGTTGCAATGCGCGCCTCGACGAA 88

QY 2094 ATCTATGAGTTTTCCTTATGGGACTTTTGGCGGCAGCTGCTTCTCATTTGCCCT 2153
DB 89 ATCTGTGAGCTCTTTCTTATGGGACCTTGGCCACAGCTGCTCTTCTTTGGCCT 148
QY 2154 GTGGGCCAGGAGCAAAATGCGTCCCGTCAACACCCGGTGCAAGTTGAGGTGTC 2213
DB 149 CTTGGTACAGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAAGTCAAGTCAA 208
QY 2214 CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCCAAGG 2263
DB 209 CTTCCAGCAGCCCTATATATCAACACCGCACCTTTCATGCTGGCTAAGGAGG 258
RESULT 8
US-11-177-987-18
; Sequence 18, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 18
; LENGTH: 418
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-11-177-987-18
Query Match 1.6%; Score 122; DB 7; Length 418;
Best Local Similarity 71.7%; Pred. No. 4.9e-20;
Matches 175; Conservative 0; Mismatches 65; Indels 4; Gaps 1;

QY 6535 ATAGCTTGGAGAGAGTGGAGAGATCAAGGGGATTTGGGAACTGGACCTGCTGTTATGTC 6594
DB 157 AAAGCTTGGAGAGAGTGGAGAGATCAAAAGCAATTTGGAGAACTGGATTTGCTGTTATGTC 216
QY 6595 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGAGCTAGAAACGAGAACTGCTCTTCT 6654
DB 217 TCTGAGAAATGCTTGGCAATTTGACCAGAGCAAGCTGAAAATGAATTAACCTT 276
QY 6655 GCCTTCTAAAAGAACAAATAGATCCCTGAATGACATTTTTT-----ACTAAAGGAAAGTG 6710
DB 277 CCCTGCTAGAAATTAACAAATAGATGCCCAAGCGATTTTTTAAACCAAGGAGATG 336
QY 6711 AGAAGCTAACGTCATCATCATATTAGAAATTCATGAAAACCTGGCTCAGTTGAAAAAG 6770
DB 337 GGAAGCCAAACTCCATCATGATGGTGGATTTCCAAATGAACCCCTGCTGTTAGTTACA 396
QY 6771 AAAA 6774
DB 397 GAAA 400
RESULT 9
US-10-985-561-13277/c
; Sequence 13277, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.

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OM nucleic - nucleic search, using sw model

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Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1111	100.0	1111	3	US-09-178-973B-9
2	1111	100.0	1111	3	US-09-419-568F-9
3	1111	100.0	1111	3	US-09-354-243B-9
4	1049.4	94.5	1166	3	US-10-084-298-3
5	1048.4	94.4	1050	3	US-10-090-365-40
6	1047.8	94.3	1119	3	US-09-178-973B-7
7	1047.8	94.3	1119	3	US-09-419-568F-7
8	1047.8	94.3	1119	3	US-09-354-243B-7
9	602.4	54.2	5935	3	US-09-178-973B-17
10	602.4	54.2	5935	3	US-09-419-568F-29
11	602.4	54.2	5935	3	US-09-354-243B-29
12	555.2	50.0	7445	3	US-09-178-973B-8
13	555.2	50.0	7445	3	US-09-419-568F-8
14	555.2	50.0	7445	3	US-09-354-243B-8
15	529	47.6	1191	3	US-10-084-298-1
16	525.6	47.3	1152	3	US-09-870-574-1
17	525.2	47.3	1116	3	US-10-090-365-14
18	525.2	47.3	1116	3	US-09-728-911-14
19	407.6	36.7	689	3	US-09-949-016-5443
20	407.6	36.7	690	3	US-09-419-568F-24
21	407.6	36.7	690	3	US-09-354-243B-24
22	217.4	19.6	8888	3	US-09-949-016-17185
23	185.2	16.7	191	3	US-10-084-298-9
24	127.6	11.5	4797	3	US-09-419-568F-25

ALIGNMENTS

RESULT 1

US-09-178-973B-9

; Sequence 9, Application US/09178973B

; Patent No. 6274710

; GENERAL INFORMATION:

; APPLICANT: Dumoutier, Laure

; APPLICANT: Louhed, Jamila

; APPLICANT: Renauld, Jean-Christophe

; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac

; TITLE OF INVENTION: (TIFFS)

; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof

; FILE REFERENCE: LUD 5543

; CURRENT APPLICATION NUMBER: US/09/178,973B

; CURRENT FILING DATE: 1998-10-26

; NUMBER OF SEQ ID NOS: 17

; SEQ ID NO 9

; LENGTH: 1111

; TYPE: DNA

; ORGANISM: Mus musculus

; US-09-178-973B-9

Query Match 100.0%; Score 1111; DB 3; Length 1111;

Best Local Similarity 100.0%; Pred. No. 3.4e-274;

Matches 1111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	AACAGGCTCTCTCTCAGTTATCACTTTTGACACTTTGCGGATCGTGATGGCTGTCTCT	60
Db	1	AACAGGCTCTCTCTCAGTTATCACTTTTGACACTTTGCGGATCGTGATGGCTGTCTCT	60
Qy	61	GCAGAAATCTATGAGTTTTTCCCTTATGGGAGCTTTGGCCGCCAGCTGCCTGTCTCAT	120
Db	61	GCAGAAATCTATGAGTTTTTCCCTTATGGGAGCTTTGGCCGCCAGCTGCCTGTCTCAT	120
Qy	121	TGCCCTGTGGGCCAGAGGCAAAATGGCTGCCCATCAACCCGGTGCAAGCTTGAGGT	180
Db	121	TGCCCTGTGGGCCAGAGGCAAAATGGCTGCCCATCAACCCGGTGCAAGCTTGAGGT	180
Qy	181	GTCCAACTTCCAGCAGCGGTACATCGTCAACCCGACCTTTTGTGCGCAAGAGGCCAG	240
Db	181	GTCCAACTTCCAGCAGCGGTACATCGTCAACCCGACCTTTTGTGCGCAAGAGGCCAG	240
Qy	241	CCTTGAGATAAACAACAACAGACGCTCGGGCTCATCGGGGAGAAACTGTTCGAGAGTCAG	300
Db	241	CCTTGAGATAAACAACAACAGACGCTCGGGCTCATCGGGGAGAAACTGTTCGAGAGTCAG	300
Qy	301	TGCTAAGGATCAGTGTCTTACCTGATGAGCAAGGTGCTCAACTTCCTCGAAGACATCT	360
Db	301	TGCTAAGGATCAGTGTCTTACCTGATGAGCAAGGTGCTCAACTTCCTCGAAGACATCT	360

Db 901 CCTATGTAACCTCATTTCCATAACCAATACCTTTATATATATGTAAGTTTATTTATATAAGT 960
Qy 961 ATACATTTTATTTATGTCAGTTTATTAATATGATTTTATTTATAGAAAATTTATCTGATG 1020
Db 961 ATACATTTTATTTATGTCAGTTTATTAATATGATTTTATTTATAGAAAATTTATCTGATG 1020
Qy 1021 TTGATATTTGAGTATAAAGCAATATATTTATGATTAATATTAATATAGAAAATTTATCT 1080
Db 1021 TTGATATTTGAGTATAAAGCAATATATTTATGATTAATATTAATATAGAAAATTTATCT 1080
Qy 1081 TAGGCTTTTATTAACACATCATATATCATAAA 1111
Db 1081 TAGGCTTTTATTAACACATCATATATCATAAA 1111

RESULT 3
US-09-354-243B-9
; Sequence 9, Application US/09354243B
; Patent No. 6359117
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Pa
; FILE OF INVENTION: (TIFS)
; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.1
; CURRENT APPLICATION NUMBER: US/09/354,243B
; CURRENT FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-354-243B-9

Query Match 100.0%; Score 1111; DB 3; Length 1111;
Best Local Similarity 100.0%; Pred. No. 3.4e-274; Mismatches 0; Indels 0; Gaps 0;
Matches 1111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTTGCGATCGGTGATGGCTGTCT 60
Db 1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTTGCGATCGGTGATGGCTGTCT 60
Qy 61 GCAGAAATCTATGAGTTTTCCTTATGCGGACTTTTGGCGCCGAGCTGCTGCTTCAT 120
Db 61 GCAGAAATCTATGAGTTTTCCTTATGCGGACTTTTGGCGCCGAGCTGCTGCTTCAT 120
Qy 121 TGCCCTGTGGGCCAGAGGCAATGCGTCCCATCAACACCCGGTGCAAGCTTGAGGT 180
Db 121 TGCCCTGTGGGCCAGAGGCAATGCGTCCCATCAACACCCGGTGCAAGCTTGAGGT 180
Qy 181 GTCCAACTTCCAGAGCGGTACATCGTCAACCCGACCTTTATGCTGGCCAAAGAGGCCAG 240
Db 181 GTCCAACTTCCAGAGCGGTACATCGTCAACCCGACCTTTATGCTGGCCAAAGAGGCCAG 240
Qy 241 CCTTGAGATTAACAACACAGAGCTCGGCTCATCGGGGAGAACTGTTCGAGAGGTACG 300
Db 241 CCTTGAGATTAACAACACAGAGCTCGGCTCATCGGGGAGAACTGTTCGAGAGGTACG 300
Qy 301 TGCTAAGATCATGTCTACCTGATGAGAGGCTCACTTCACTTCCCTGGAAGACATTTCT 360
Db 301 TGCTAAGATCATGTCTACCTGATGAGAGGCTCACTTCACTTCCCTGGAAGACATTTCT 360
Qy 361 GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGAGGAGGTGGTGTCTTCTGACCAA 420
Db 361 GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGAGGAGGTGGTGTCTTCTGACCAA 420
Qy 421 ACTCAGCAATCAGCTCAGCTCTCTGTCATCATCATGAGTGGTGCAGCCAGAACATCCAGAGAA 480

Db 421 ACTCAGCAATCAGCTCAGCTCCTGTCATCATCATGCTGGTGCAGCCAGAACATCCAGAGAA 480
Qy 481 TGTCAAGAGCTCGAAGAGACAGTGAAGAGCTTTGGAGAGAGCGGAGAGATCAAGCGAT 540
Db 481 TGTCAAGAGCTCGAAGAGACAGTGAAGAGCTTTGGAGAGAGCGGAGAGATCAAGCGAT 540
Qy 541 CGGGAACTGGACCTGCTGTTTATGCTCTGAGAAATGCTTGGCTCTGAGCGAGAGAG 600
Db 541 CGGGAACTGGACCTGCTGTTTATGCTCTGAGAAATGCTTGGCTCTGAGCGAGAGAG 600
Qy 601 CTAGAAAACGAGAACTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 660
Db 601 CTAGAAAACGAGAACTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 660
Qy 661 GACTTTTTTACTAAAGGAAAGTGAGAGAGCTTAAGCTCCACCATCATTTAGAGAGATTTCCAT 720
Db 661 GACTTTTTTACTAAAGGAAAGTGAGAGAGCTTAAGCTCCACCATCATTTAGAGAGATTTCCAT 720
Qy 721 GAAACCTGCTCAGTTGAAAGAGAAATAGTGTCAAGTTGTCCATGAGACCCAGAGGTAGA 780
Db 721 GAAACCTGCTCAGTTGAAAGAGAAATAGTGTCAAGTTGTCCATGAGACCCAGAGGTAGA 780
Qy 781 CTGTATAACCAACAAAGATTCATTTGACAATATTTTATTTGTCATTTGATATGCAACAGAAA 840
Db 781 CTGTATAACCAACAAAGATTCATTTGACAATATTTTATTTGTCATTTGATATGCAACAGAAA 840
Qy 841 AGTATGCTACTTTTAAAAAATTTGTTGAAAGGAGGTACCTCTCATTTCTCTAGAGAGAAAG 900
Db 841 AGTATGCTACTTTTAAAAAATTTGTTGAAAGGAGGTACCTCTCATTTCTCTAGAGAGAAAG 900
Qy 901 CCTATGTAACCTTCCATTAACCAATATTTTATATATATGTAAGTTTATTTATTTATTAAGT 960
Db 901 CCTATGTAACCTTCCATTAACCAATATTTTATATATATGTAAGTTTATTTATTTATTAAGT 960
Qy 961 ATACATTTTATTTATGCTGATTTTATTAATATGATTTTATTTAGAAAATTTATCTGATG 1020
Db 961 ATACATTTTATTTATGCTGATTTTATTAATATGATTTTATTTAGAAAATTTATCTGATG 1020
Qy 1021 TTGATATTTGAGTATAAAGCAATATATTTATGATAATATTAATATAGAAAATTTATCT 1080
Db 1021 TTGATATTTGAGTATAAAGCAATATATTTATGATAATATTAATATAGAAAATTTATCT 1080
Qy 1081 TAGGCTTTTATTAACACATCATATATCATAAA 1111
Db 1081 TAGGCTTTTATTAACACATCATATATCATAAA 1111

RESULT 4
US-10-084-298-3
; Sequence 3, Application US/10084298
; Patent No. 6939545
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: Pittman, Debra
; APPLICANT: Fouser, Lynette
; APPLICANT: Spaulding, Vikki
; APPLICANT: Xuan, Dejun
; TITLE OF INVENTION: Composition and Method for Treating Inflammatory
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: G15358 CIP
; CURRENT APPLICATION NUMBER: US/10/084,298
; CURRENT FILING DATE: 2002-09-10
; PRIOR APPLICATION NUMBER: 60/270,823
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/281,353
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: 60/131,473
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/561,811
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3

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; LENGTH: 1166
; TYPE: DNA
; ORGANISM: Murine
US-10-084-298-3

Query Match      94.5%; Score 1049.4; DB 3; Length 1166;
Best Local Similarity 97.1%; Pred. No. 2e-258;
Matches 1079; Conservative 0; Mismatches 31; Indels 1; Gaps 1;

Qy  1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACCTTTGTGGGATCGTGATGCGTGTCTCT 60
Db  26 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACCTTTGTGGGATCGTGATGCGTGTCTCT 85

Qy  61 GCAGAAATCTATGAGTTTCCCTTTATGGGACCTTTTGGCCGCCAGCTGCTGCTTCTCAT 120
Db  86 GCAGAAATCTATGAGTTTCCCTTTATGGGACCTTTTGGCCGCCAGCTGCTGCTTCTCAT 145

Qy  121 TGCCTCTGGGCCCCAGGAGGCAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT 180
Db  146 TGCCTCTGGGCCCCAGGAGGCAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT 205

Qy  181 GTCCAACTTCAGAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCCAAGGAGCCAG 240
Db  206 GTCCAACTTCAGAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCCAAGGAGCCAG 265

Qy  241 CCTTGCAGATAACCAACAGAGCTCGGCTCATCGGGGAGAACTGTTCCGAGAGTCAG 300
Db  266 CCTTGCAGATAACCAACAGAGCTCGGCTCATCGGGGAGAACTGTTCCGAGAGTCAG 325

Qy  301 TGCTAAGGATCAGTGTCTACCTGTGAAGAGGCTGCTCAACTTTCACCCCTGGAAGACATCT 360
Db  326 TGCTAAGGATCAGTGTCTACCTGTGAAGAGGCTGCTCAACTTTCACCCCTGGAAGAGTCT 385

Qy  361 GCTCCCCAGTCAGACAGGTTCCGGCCCTCATGTCAGAGAGTGCTGCTTCTCTGACCAA 420
Db  386 GCTCCCCAGTCAGACAGGTTCCAGCCCTCATGTCAGAGAGTGCTGCTTCTCTGACCAA 445

Qy  421 ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGTGACGACCAAGACATCCAGAGAA 480
Db  446 ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAAGACATCCAGAGAA 505

Qy  481 TGTGAGAGGCTGAAGGAGACAGTGAAGAAAGCTTTGGAGAGCGGAGAGATCAAGCGAT 540
Db  506 TGTGAGAGGCTGAAGGAGACAGTGAAGAAAGCTTTGGAGAGTGAGAGATCAAGCGAT 565

Qy  541 CGGGGAACTGGAACCTGCTGTTTATGCTCTGAGAAATGCTTGCTGAGCGAGAGAAAG 600
Db  566 TGGGGAACTGGAACCTGCTGTTTATGCTCTGAGAAATGCTTGCTGAGCGAGAGAAAG 625

Qy  601 CTAGAAACGAGAACTGCTCCTCTGCTTCTTAAAGAAAGCAATTAAGATCCCTGGAATG 660
Db  626 CTAGAAACGAGAACTGCTCCTCTGCTTCTTAAAGAAAGCAATTAAGATCCCTGGAATG 685

Qy  661 GACTTTTTTACTAAGGAAAGTGAGAGCTAACCGTCCACCATCAATTAGAAGATTTTCAT 720
Db  686 GACTTTTTTACTAAGGAAAGTGAGAGCTAACCGTCCATCAATTAGAAGATTTTCAT 745

Qy  721 GAAACCTGGCTCAGTTGAAAGAGAAATAGTGTGCAAGTTGTGCCATGAGACACAGAGTAGA 780
Db  746 GAAACCTGGCTCAGTTGAAAGAGAAATAGTGTGCAAGTTGTGCCATGAGACACAGAGTAGA 805

Qy  781 CTTGATAACCAAGATTCATTCACATATTTTATTTGTCATTAATGATCAACAGAGAA 840
Db  806 CTTGATAACCAAGATTCATTCACATATTTTATTTGTCATTAATGATCAACAGAGAA 865

Qy  841 AGTATGTACTTTTAAAAATTTCTTTGAAAGGAGGTTACCTCTCATTTCTTAGAAGAAAAG 900
Db  866 ATAATGTACTTTTAAAAATTTCTTTGAAAGGAGGTTACCTCTCATTTCTTTAGAAAAG 925

Qy  901 CCTATGTAACCTTCAATTTCCATAACCAATATTTTATATATGTAAGTTTATTTATTAAGT 960
Db  926 CTTATGTAACCTTCAATTTCCATAACCAATATTTTATATATGTAAGTTTATTTATTAAGT 985
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Qy  961 ATACATTTTATTTATGTCAGTTTATTAATATGGAATTTATTTATAGAAAAATTTATCTGATG 1020
Db  986 ATACATTTTATTTATGTCAGTTTATTAATATGGAATTTATTTATAGAAAAATTTATCTGCTA 1045

Qy  1021 TTGATATTTGAGTATAAAGCAATAATATTTATGATAAATAACTATAGAAAACAAGATATCT 1080
Db  1046 TTGATATTT-AGTATAAAGCAATAATATTTATGACAATAAATACTATGGAACAAGATATCT 1104

Qy  1081 TAGGCTTTAATAAACACATGAATATCATAAA 1111
Db  1105 TAGGCTTTAATAAACACATGGATATCATAAA 1135

RESULT 5
US-10-090-365-40
; Sequence 40, Application US/10090365
; Patent No. 6875845
; GENERAL INFORMATION:
; APPLICANT: Presnell, Scott R.
; APPLICANT: Xu, Wenfeng
; APPLICANT: Kindsvogel, Wayne
; APPLICANT: Chen, Zhi
; TITLE OF INVENTION: Mouse Cytokine Receptor
; FILE REFERENCE: 01-08
; CURRENT APPLICATION NUMBER: US/10/090,365
; CURRENT FILING DATE: 2002-03-04
; PRIOR APPLICATION NUMBER: US 60/273,035
; PRIOR FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: US 60/279,232
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: Fast-Seq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 1050
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (50)...(589)
US-10-090-365-40

Query Match      94.4%; Score 1048.4; DB 3; Length 1050;
Best Local Similarity 99.9%; Pred. No. 3.5e-258;
Matches 1049; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy  1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACCTTTGTGGGATCGTGATGCGTGTCTCT 60
Db  1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACCTTTGTGGGATCGTGATGCGTGTCTCT 60

Qy  61 GCAGAAATCTATGAGTTTCCCTTTATGGGACCTTTTGGCCGCCAGCTGCTGCTTCTCAT 120
Db  61 GCAGAAATCTATGAGTTTCCCTTTATGGGACCTTTTGGCCGCCAGCTGCTGCTTCTCAT 120

Qy  121 TGCCTCTGGGCCCCAGGAGGCAAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT 180
Db  121 TGCCTCTGGGCCCCAGGAGGCAAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT 180

Qy  181 GTCCAACTTCAGAGCGGTACATCGTCAACCGCACCTTTTATGCTGGCCCAAGGAGCCAG 240
Db  181 GTCCAACTTCAGAGCGGTACATCGTCAACCGCACCTTTTATGCTGGCCCAAGGAGCCAG 240

Qy  241 CTTTGCAGATAAACAACAGAGCTCGGCTCATCGGGGAGAACTGTTCCGAGAGTCAG 300
Db  241 CTTTGCAGATAAACAACAGAGCTCGGCTCATCGGGGAGAACTGTTCCGAGAGTCAG 300

Qy  301 TGCTAAGGATCAGTGTCTACCTGTGAAGAGGCTGCTCAACTTTCACCTGGAAGACATCTCT 360
Db  301 TGCTAAGGATCAGTGTCTACCTGTGAAGAGGCTGCTCAACTTTCACCTGGAAGACATCTCT 360

Qy  361 GCTCCCCAGTCAGACAGGTTCCGGCCCTCATGTCAGAGAGTGCTGCTTCTCTGACCAA 420
Db  361 GCTCCCCAGTCAGACAGGTTCCGGCCCTCATGTCAGAGAGTGCTGCTTCTCTGACCAA 420
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RESULT 7
US-09-419-568F-7
; Sequence 7, Application US/09419568F
; Patent No. 6331613
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: (TIPS) The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/09/419,568F
; PRIOR FILING DATE: 1999-10-18
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 7
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-419-568F-7

Query Match 94.3%; Score 1047.8; DB 3; Length 1119;
Best Local Similarity 97.0%; Pred. No. 5.1e-258;
Matches 1078; Conservative 0; Mismatches 32; Indels 1; Gaps 1;

Qy 1 AACAGGCTCTCTCTCAGTTTATCAACTTTTGACACTTTGTGCGATCGGTGATGGCTGTCT 60
Db 3 AACAGGCTCTCTCTCAGTTTATCAACTTTTGACACTTTGTGCGATCTGTGATGGCTGTCT 62

Qy 61 GCAGAAATCTATGATGTTTTCCCTTATGGGACTTTTGGCCGCCAGCTGCTCTTCAT 120
Db 63 GCAGAAATCTATGATGTTTTCCCTTATGGGACTTTTGGCCGCCAGCTGCTCTTCAT 122

Qy 121 TGGCCTGTGGCCAGAGGCAATGCGCTGCCATCAACACCGGTGCAAGCTTGAGGT 180
Db 123 TGGCCTGTGGCCAGAGGCAATGCGCTGCCATCAACACCGGTGCAAGCTTGAGGT 182

Qy 181 GTCCAACTTCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGAGGCGCAG 240
Db 183 GTCCAACTTCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGAGGCGCAG 242

Qy 241 CCTTGCAGATAACAAACACAGACGTCGGCTCATCGGGAGAAAATGTTCCGAGAGTCAG 300
Db 243 CCTTGCAGATAACAAACACAGACGTCGGCTCATCGGGAGAAAATGTTCCGAGAGTCAG 302

Qy 301 TGCTAAGGATCAGTGCTACCTGATGAGCAGGCTGCTCAACTTCACCTGGAGACATCTCT 360
Db 303 TGCTAAGGATCAGTGCTACCTGATGAGCAGGCTGCTCAACTTCACCTGGAGACATCTCT 362

Qy 361 GCTCCCCCAGTCAGACAGGTTCCGGCCCTCATGTCAGAGGTTGGTGGCTTTCTTCGACCAA 420
Db 363 GCTCCCCCAGTCAGACAGGTTCCAGCCCTCATGTCAGAGGTTGGTGGTACCTTTCTCGACCAA 422

Qy 421 ACTGAGCAATCAGCTCAGCTCCTGTCTCATCAGTGGTGACGACCAACATCCAGAGAA 480
Db 423 ACTGAGCAATCAGCTCAGCTCCTGTCTCATCAGTGGTGACGACCAACATCCAGAGAA 482

Qy 481 TGTGAGAGGCTGAGGAGACAGTGAAGAAAAGCTTTGGAGAGAGTGAGAGATCAAGCGAT 540
Db 483 TGTGAGAGGCTGAGGAGACAGTGAAGAAAAGCTTTGGAGAGAGTGAGAGATCAAGCGAT 542

Qy 541 CGGGGAACTGGACCTGCTGTTTATGCTCTCTGAGAAATGCTTCTGAGCGAGGAGAAAG 600
Db 543 TGGGGAATGAGCTGCTGTTTATGCTCTCTGAGAAATGCTTCTGAGCGAGGAGAG 602

Qy 601 CTAGAAAACGAGAACTGCTCTCTTCCCTTCTTAAAAAGAAACATTAAGATCCCTGATG 660
Db 603 CTAGAAAACGAGAACTGCTCTCTTCCCTTCTTAAAAAGAAACATTAAGATCCCTGATG 662
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Qy 661 GACTTTTTTACTAAAGGAAAGTGAAGCTTAACGTCACCATCATTTAGAAAGATTTCAT 720
Db 663 GACTTTTTTACTAAAGGAAAGTGAAGCTTAACGTCACCATCATTTAGAAAGATTTCAT 722

Qy 721 GAAACCTGGCTCAGTTGAAAGAAATAGTGTCAAGTGTCCATGAGACCCAGAGGTAGA 780
Db 723 GAAACCTGGCTCAGTTGAAAGAAATAGTGTCAAGTGTCCATGAGACCCAGAGGTAGA 782

Qy 781 CTTGATAACCAACAGATTCATTCACAAATATTTTATGTCTCATTCATATCAACAGAAAA 840
Db 783 CTTGATAACCAACAGATTCATTCACAAATATTTTATGTCTCATTCATATCAACAGAAAA 842

Qy 841 AGTATGTACTTTTAAAAAATTTGTTGAAAGGAGGTAACTCTCTCATTCCTTAGAAGAAAA 900
Db 843 ATAATGTACTTTTAAAAAATTTGTTGAAAGGAGGTAACTCTCTCATTCCTTTAGAAAAA 902

Qy 901 CCTATGTAACTTCATTTCCATAACCAATACCTTTATATATATGTAAGTTTATTTATTAAGT 960
Db 903 CTTATGTAACTTCATTTCCATAACCAATATTTTATATATGTAAGTTTATTTATTTATTAAGT 962

Qy 961 ATACATTTTATTTATGTCTCAGTTTATTAATATGATGATTTTATATAGAAAAATTTCTCATG 1020
Db 963 ATACATTTTATTTATGTCTCAGTTTATTAATATGATGATTTTATATAGAAAAATTTCTCTA 1022

Qy 1021 TTGATATTTGAGTATAAGCAAAATATTTATGATAATAACTATAGAAAAACAAGATATCT 1080
Db 1023 TTGATATTT-AGTATAAGGCAAAATATTTATGACATAAATATGGAACAAGATATCT 1081

Qy 1081 TAGCCTTTAATAAACACATGAATATCAAAA 1111
Db 1082 TAGCCTTTAATAAACACATGAATATCAAAA 1112

RESULT 8
US-09-354-243B-7
; Sequence 7, Application US/09354243B
; Patent No. 6359117
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fa
; TITLE OF INVENTION: (TIPS)
; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.1
; CURRENT APPLICATION NUMBER: US/09/354,243B
; CURRENT FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 7
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-354-243B-7

Query Match 94.3%; Score 1047.8; DB 3; Length 1119;
Best Local Similarity 97.0%; Pred. No. 5.1e-258;
Matches 1078; Conservative 0; Mismatches 32; Indels 1; Gaps 1;

Qy 1 AACAGGCTCTCTCTCAGTTTATCAACTTTTGACACTTTGTGCGATCGGTGATGGCTGTCT 60
Db 3 AACAGGCTCTCTCTCAGTTTATCAACTTTTGACACTTTGTGCGATCTGTGATGGCTGTCT 62

Qy 61 GCAGAAATCTATGATGTTTTCCCTTATGGGACTTTTGGCCGCCAGCTGCTCTTCAT 120
Db 63 GCAGAAATCTATGATGTTTTCCCTTATGGGACTTTTGGCCGCCAGCTGCTCTTCAT 122

Qy 121 TGGCCTGTGGCCAGAGGCAATGCGCTGCCATCAACACCGGTGCAAGCTTGAGGT 180
Db 123 TGGCCTGTGGCCAGAGGCAATGCGCTGCCATCAACACCGGTGCAAGCTTGAGGT 182

Qy 181 GTCCAACTTCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGAGGCGCAG 240
Db 183 GTCCAACTTCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGAGGCGCAG 242

Qy 241 CCTTGCAGATAACAAACACAGACGTCGGCTCATCGGGAGAAAATGTTCCGAGAGTCAG 300
Db 243 CCTTGCAGATAACAAACACAGACGTCGGCTCATCGGGAGAAAATGTTCCGAGAGTCAG 302

Qy 301 TGCTAAGGATCAGTGCTACCTGATGAGCAGGCTGCTCAACTTCACCTGGAGACATCTCT 360
Db 303 TGCTAAGGATCAGTGCTACCTGATGAGCAGGCTGCTCAACTTCACCTGGAGACATCTCT 362

Qy 361 GCTCCCCCAGTCAGACAGGTTCCGGCCCTCATGTCAGAGGTTGGTGGCTTTCTTCGACCAA 420
Db 363 GCTCCCCCAGTCAGACAGGTTCCAGCCCTCATGTCAGAGGTTGGTGGTACCTTTCTCGACCAA 422

Qy 421 ACTGAGCAATCAGCTCAGCTCCTGTCTCATCAGTGGTGACGACCAACATCCAGAGAA 480
Db 423 ACTGAGCAATCAGCTCAGCTCCTGTCTCATCAGTGGTGACGACCAACATCCAGAGAA 482

Qy 481 TGTGAGAGGCTGAGGAGACAGTGAAGAAAAGCTTTGGAGAGAGTGAGAGATCAAGCGAT 540
Db 483 TGTGAGAGGCTGAGGAGACAGTGAAGAAAAGCTTTGGAGAGAGTGAGAGATCAAGCGAT 542

Qy 541 CGGGGAACTGGACCTGCTGTTTATGCTCTCTGAGAAATGCTTCTGAGCGAGGAGAAAG 600
Db 543 TGGGGAATGAGCTGCTGTTTATGCTCTCTGAGAAATGCTTCTGAGCGAGGAGAG 602

Qy 601 CTAGAAAACGAGAACTGCTCTCTTCCCTTCTTAAAAAGAAACATTAAGATCCCTGATG 660
Db 603 CTAGAAAACGAGAACTGCTCTCTTCCCTTCTTAAAAAGAAACATTAAGATCCCTGATG 662
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181 GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCCAAGAGGCCAG 240
183 GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCCAAGAGGCCAG 242
241 CTTTGCAGATAACAACACAGACGCTCCGGCTCATCGGGGAGAACTGTTCCGAGAGTCAG 300
243 CTTTGCAGATAACAACACAGACGCTCCGGCTCATCGGGGAGAACTGTTCCGAGAGTCAG 302
301 TGCTAAGGATCAGTGTCTACCTGATGAAGCAGGCTCTCAACTTCAACCTCGAAGACATCT 360
303 TGCTAAGGATCAGTGTCTACCTGATGAAGCAGGCTCTCAACTTCAACCTCGAAGACATCT 362
361 GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCGAGAGGTGCTGCTTTCTCTGACCAA 420
363 GCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCGAGAGGTGCTGCTTTCTCTGACCAA 422
421 ACTCAGCAATCAGTGTCTGCTGCTACATCAGTGTGAGCAGCAGACAGACATCCAGAGAA 480
423 ACTCAGCAATCAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 482
481 TGTCAAGAGCTCAAGGAGACAGTGAAGAAAGCTTTGGAGAGCGGAGAGATCAAGCGAT 540
483 TGTCAAGAGCTCAAGGAGACAGTGAAGAAAGCTTTGGAGAGCGGAGAGATCAAGCGAT 542
541 CGGGGAACTCGGACCTGCTGTTTATGCTCTGAGAAATGCTTGGCTCTGAGCGAGAAAG 600
543 TGGGGAATCGGACCTGCTGTTTATGCTCTGAGAAATGCTTGGCTCTGAGCGAGAAAG 602
601 CTGAGAAACGAGACAGTCTCTGCTGCTCTCTGAGAAAGCAATAAGATCCCTGATG 660
603 CTGAGAAACGAGACAGTCTCTGCTGCTCTCTGAGAAAGCAATAAGATCCCTGATG 662
661 GACTTTTTTAAAGAGAGAGTGAAGAGCTAAAGTCCACCATCATTTAGAGATTTTCACAT 720
663 GACTTTTTTAAAGAGAGAGTGAAGAGCTAAAGTCCACCATCATTTAGAGATTTTCACAT 722
721 GAAACCTGGCTCAGTTGAAAGAGAAATAGTGTCAAGTTGCTCCATGAGACGAGAGTAGA 780
723 GAAACCTGGCTCAGTTGAAAGAGAAATAGTGTCAAGTTGCTCCATGAGACGAGAGTAGA 782
781 CTTGATACACCAAGATTCATTGACATATTTTATTTGTCATTGATTAATGCAACAGAGAA 840
783 CTTGATACACCAAGATTCATTGACATATTTTATTTGTCATTGATTAATGCAACAGAGAA 842
841 AGTATGTAATTTAAAGATTTGTTGAAAGAGGTTACCTCTCATCTCTAGAGAGAAAG 900
843 ATAATGTAATTTAAAGATTTGTTGAAAGAGGTTACCTCTCATCTTTAGAGAGAAAG 902
901 CCTATGTAATTTCCATAACCAATCTTTATATATGTAAGTTTATTTATATAAGT 960
903 CTTATGTAATTTCCATAACCAATCTTTATATATGTAAGTTTATTTATATAAGT 962
961 ATACATTTTATTTATGTCAGTTTATTAATGAGATTTTATAGAGAAATATCTGATG 1020
963 ATACATTTTATTTATGTCAGTTTATTAATGAGATTTTATTAAGAGAAATATCTGCTA 1022
1021 TTGATATTTTATGATTAAGCAATATATTTATGATTAATCTATAGAACAGATATCT 1080
1023 TTGATATTTTATGATTAAGCAATATATTTATGATTAATCTATAGAACAGATATCT 1081
1081 TAGGCTTTTATTAACACATGAATATCATAA 1111
1082 TAGGCTTTTATTAACACATGAATATCATAA 1112

RESULT 9
US-09-178-973B-17
; Sequence 17, Application US/09178973B
; Patent No. 6274710
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila

; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: (TIFS)
; FILE REFERENCE: LUD 5543
; CURRENT APPLICATION NUMBER: US/09/178, 973B
; CURRENT FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 17
; SEQ ID NO 17
; LENGTH: 5935
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-178-973B-17

Query Match 54.2%; Score 602.4; DB 3; Length 5935;
Best Local Similarity 99.8%; Pred. No. 1e-143;
Matches 603; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 508 AAAGCTTGGAGAGAGCGGAGAGATCAAGCGATCGGGGAACTGAGACTGCTGCTTTATGTC 567
Db 5221 ATAGCTTGGAGAGAGCGGAGAGATCAAGCGATCGGGGAACTGAGACTGCTGCTTTATGTC 5280
QY 568 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGAGCTAGAAACGAGAACTGCTCTCTCT 627
Db 5281 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGAGCTAGAAACGAGAACTGCTCTCTCT 5340
QY 628 GCCTTCTTAAAGAAACAATAAGATCCCTGAATGCGACTTTTTTACTAAAGGAAAGTGAGAA 687
Db 5341 GCCTTCTTAAAGAAACAATAAGATCCCTGAATGCGACTTTTTTACTAAAGGAAAGTGAGAA 5400
QY 688 GCTAACGCTCCACCATCATTTAGAGAGATTTTCAATGAAACCTGGCTCAGTTGAAAGAGAGAAA 747
Db 5401 GCTAACGCTCCACCATCATTTAGAGAGATTTTCAATGAAACCTGGCTCAGTTGAAAGAGAGAAA 5460
QY 748 TAGTGTCAAGTTGCTCCATGAGACGAGAGTAGACTTTGATTAACCAACAAGATTCATTGACA 807
Db 5461 TAGTGTCAAGTTGCTCCATGAGACGAGAGTAGACTTTGATTAACCAACAAGATTCATTGACA 5520
QY 808 ATATTTTATTTGTCATTGATAATGCAACAGAGAGAGATGATGTTTAAAGAAATTTGTTGAA 867
Db 5521 ATATTTTATTTGTCATTGATAATGCAACAGAGAGAGATGATGTTTAAAGAAATTTGTTGAA 5580
QY 868 AGGAGTTTACCTCTCATCTCTCTAGAGAGAGAGAGCTTATGTAACCTTCAATTTCCATAACCAA 927
Db 5581 AGGAGTTTACCTCTCATCTCTCTAGAGAGAGAGAGCTTATGTAACCTTCAATTTCCATAACCAA 5640
QY 928 TACTTTATATATGTAAGTTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 987
Db 5641 TACTTTATATATGTAAGTTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 5700
QY 988 ATATGGAATTTATTTATAGAGAGAGATTTATCTGATGTTGATATTTTCAAGTATTAAGCAAAATAT 1047
Db 5701 ATATGGAATTTATTTATAGAGAGAGATTTATCTGATGTTGATATTTTCAAGTATTAAGCAAAATAT 5760
QY 1048 ATTATGATTAATAACTATAGAAACAGATATCTTAGGCTTTTATTAACACATGAATATCA 1107
Db 5761 ATTATGATTAATAACTATAGAAACAGATATCTTAGGCTTTTATTAACACATGAATATCA 5820
QY 1108 TAAA 1111
Db 5821 TAAA 5824

RESULT 10
US-09-419-568F-29
; Sequence 29, Application US/09419568F
; Patent No. 6331613
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: (TIFS) The Proteins Encoded, and Uses Thereof

FILE REFERENCE: LUD 5543.2
CURRENT APPLICATION NUMBER: US/09/419,568F
CURRENT FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: US09/354,243
PRIOR FILING DATE: 1999-07-16
PRIOR APPLICATION NUMBER: US09/178,973
PRIOR FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 29
SEQ ID NO 29
LENGTH: 5935
TYPE: DNA
ORGANISM: Mus musculus
FEATURE:
US-09-419-568F-29

Query Match 54.2%; Score 602.4; DB 3; Length 5935;
Best Local Similarity 99.8%; Pred. No. 1e-143;
Matches 603; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 508 AAAGCTTGGAGAGCGGAGAGATCAAAAGCGATCGGGAACTGGACCTGCTGTTATGTC 567
Db 5221 ATAGCTTGGAGAGCGGAGAGATCAAAAGCGATCGGGAACTGGACCTGCTGTTATGTC 5280
Qy 568 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAAAGCTAGAAAACGAAGAACTGCTCTTCCT 627
Db 5281 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAGAACTGCTCTTCCT 5340
Qy 628 GCCTTCTAAAAGAACAAATAGATCCCTGGAATGCACTTTTACTAAAGGAAAGTGAGAA 687
Db 5341 GCCTTCTAAAAGAACAAATAGATCCCTGGAATGCACTTTTACTAAAGGAAAGTGAGAA 5400
Qy 688 GCTAACGTCACCAATCATTAGAGATTTCAATGAAACCTGGCTCAGTTGAAAGAGAAAA 747
Db 5401 GCTAACGTCACCAATCATTAGAGATTTCAATGAAACCTGGCTCAGTTGAAAGAGAAAA 5460
Qy 748 TAGTGTCAGGTTGTCCATGAGACGAGGTAGACTTGTATACCAACAAAGATTTCATTGACA 807
Db 5461 TAGTGTCAGGTTGTCCATGAGACGAGGTAGACTTGTATACCAACAAAGATTTCATTGACA 5520
Qy 808 ATATTTTATGTCATTGATTAATGCAACAGAAAAAGTATGTAATTTTAAAAAATGTTTGA 867
Db 5521 ATATTTTATGTCATTGATTAATGCAACAGAAAAAGTATGTAATTTTAAAAAATGTTTGA 5580
Qy 868 AGGAGGTTACCTCTCACTTCTCTAGAGAAAGCCTATGTAACCTTTCCATAACCAA 927
Db 5581 AGGAGGTTACCTCTCACTTCTCTAGAGAAAGCCTATGTAACCTTTCCATAACCAA 5640
Qy 928 TACTTTATATATGTAAGTTTATTTATTAAGTATACATTTTATGTCAGTTTATTA 987
Db 5641 TACTTTATATATGTAAGTTTATTTATTAAGTATACATTTTATGTCAGTTTATTA 5700
Qy 988 ATATGGATTTATTTATAGAAAAATTTATCTGATGTTGATATTTTGATATAAGCAAAAT 1047
Db 5701 ATATGGATTTATTTATAGAAAAATTTATCTGATGTTGATATTTTGATATAAGCAAAAT 5760
Qy 1048 ATTTATGATATAACTATAGAAAAAAGATATCTTAGGCTTTTAAACACATGATATCA 1107
Db 5761 ATTTATGATATAACTATAGAAAAAAGATATCTTAGGCTTTTAAACACATGATATCA 5820
Qy 1108 TAAA 1111
Db 5821 TAAA 5824

RESULT 11
US-09-354-243B-29
Sequence 29, Application US/09354243B
Patent No. 6359117
GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Louhed, Jamila
APPLICANT: Renaud, Jean-Christophe
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fa

TITLE OF INVENTION: (TIFS)
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
FILE REFERENCE: LUD 5543.1
CURRENT APPLICATION NUMBER: US/09/354,243B
CURRENT FILING DATE: 1999-07-16
PRIOR APPLICATION NUMBER: US09/178,973
PRIOR FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 29
SEQ ID NO 29
LENGTH: 5935
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
US-09-354-243B-29

Query Match 54.2%; Score 602.4; DB 3; Length 5935;
Best Local Similarity 99.8%; Pred. No. 1e-143;
Matches 603; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 508 AAAGCTTGGAGAGCGGAGAGATCAAAAGCGATCGGGAACTGGACCTGCTGTTATGTC 567
Db 5221 ATAGCTTGGAGAGCGGAGAGATCAAAAGCGATCGGGAACTGGACCTGCTGTTATGTC 5280
Qy 568 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAAAGCTAGAAAACGAAGAACTGCTCTTCCT 627
Db 5281 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAGAACTGCTCTTCCT 5340
Qy 628 GCCTTCTAAAAGAACAAATAGATCCCTGGAATGCACTTTTACTAAAGGAAAGTGAGAA 687
Db 5341 GCCTTCTAAAAGAACAAATAGATCCCTGGAATGCACTTTTACTAAAGGAAAGTGAGAA 5400
Qy 688 GCTAACGTCACCAATCATTAGAGATTTCAATGAAACCTGGCTCAGTTGAAAGAGAAAA 747
Db 5401 GCTAACGTCACCAATCATTAGAGATTTCAATGAAACCTGGCTCAGTTGAAAGAGAAAA 5460
Qy 748 TAGTGTCAGGTTGTCCATGAGACGAGGTAGACTTGTATACCAACAAAGATTTCATTGACA 807
Db 5461 TAGTGTCAGGTTGTCCATGAGACGAGGTAGACTTGTATACCAACAAAGATTTCATTGACA 5520
Qy 808 ATATTTTATGTCATTGATTAATGCAACAGAAAAAGTATGTAATTTTAAAAAATGTTTGA 867
Db 5521 ATATTTTATGTCATTGATTAATGCAACAGAAAAAGTATGTAATTTTAAAAAATGTTTGA 5580
Qy 868 AGGAGGTTACCTCTCACTTCTCTAGAGAAAGCCTATGTAACCTTTCCATAACCAA 927
Db 5581 AGGAGGTTACCTCTCACTTCTCTAGAGAAAGCCTATGTAACCTTTCCATAACCAA 5640
Qy 928 TACTTTATATATGTAAGTTTATTTATTAAGTATACATTTTATGTCAGTTTATTA 987
Db 5641 TACTTTATATATGTAAGTTTATTTATTAAGTATACATTTTATGTCAGTTTATTA 5700
Qy 988 ATATGGATTTATTTATAGAAAAATTTATCTGATGTTGATATTTTGATATAAGCAAAAT 1047
Db 5701 ATATGGATTTATTTATAGAAAAATTTATCTGATGTTGATATTTTGATATAAGCAAAAT 5760
Qy 1048 ATTTATGATATAACTATAGAAAAAAGATATCTTAGGCTTTTAAACACATGATATCA 1107
Db 5761 ATTTATGATATAACTATAGAAAAAAGATATCTTAGGCTTTTAAACACATGATATCA 5820
Qy 1108 TAAA 1111
Db 5821 TAAA 5824

RESULT 12
US-09-178-973B-8
Sequence 8, Application US/09178973B
Patent No. 6274710
GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Louhed, Jamila
APPLICANT: Renaud, Jean-Christophe
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac

; TITLE OF INVENTION: (TIPS)
; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543
; CURRENT APPLICATION NUMBER: US/09/178, 973B
; CURRENT FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 17
; SEQ ID NO 8
; LENGTH: 7445
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-178-973B-8

Query Match 50.0%; Score 555.2; DB 3; Length 7445;
Best Local Similarity 96.0%; Pred. No. 1.3e-131;
Matches 580; Conservative 0; Mismatches 23; Indels 1; Gaps 1;
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DB 6535 ATAGCTTGGAGAGGTGGAGAGATCAAGCGATCGGGAACTCGACTGCTGTTTATGTC 6594
QY 568 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAACTAGAAAACGAAGAACTGCTCCTTCCT 627
DB 6595 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAACTAGAAAACGAAGAACTGCTCCTTCCT 6654
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DB 6655 GCCTTCTAAAAGAAACAATAAGATCCCTGAATGGACTTTTACTAAAGAAAGTGAGAA 6714
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DB 6715 GCTAACGTCACCATCATCTAGAGATTTCACATGAACCTGGCTCAGTTGAAAGAGAAA 6774
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DB 6835 ATATTTTATGTCATGATTAATGCAACAGAAAAAGTAGTACTTTTAAAAAATGTTTGAA 6894
QY 868 AGAGGTTACCTCTCATCTCTAGAGAAAGCCTATGTAACCTTCATTTCCATACCAA 927
DB 6895 AGAGGTTACCTCTCATCTCTAGAGAAAGCCTATGTAACCTTCATTTCCATACCAA 6954
QY 928 TACTTTATATGTAAGTTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 987
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DB 7015 ATATGGAATTTATTAAGAAAAATTTATCTGATGTTGATATTTAGTATATAAGCAAAATAT 7073
QY 1048 ATTTATGATAAATCACTATAGAACAAAGATATCTTAGGCTTTAATAACACATGAATATCA 1107
DB 7074 ATTTATGATAAATCACTATAGAACAAAGATATCTTAGGCTTTAATAACACATGAATATCA 7133
QY 1108 TAAA 1111
DB 7134 TAAA 7137

RESULT 13
US-09-419-568F-8
; Sequence 8, Application US/09419568F
; Patent No. 6331613
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/09/419, 568F

; CURRENT FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 8
; LENGTH: 7445
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-419-568F-8

Query Match 50.0%; Score 555.2; DB 3; Length 7445;
Best Local Similarity 96.0%; Pred. No. 1.3e-131;
Matches 580; Conservative 0; Mismatches 23; Indels 1; Gaps 1;
QY 508 AAAGCTTGGAGAGCGGAGAGATCAAGCGATCGGGAACTCGACTGCTGTTTATGTC 567
DB 6535 ATAGCTTGGAGAGGTGGAGAGATCAAGCGATCGGGAACTCGACTGCTGTTTATGTC 6594
QY 568 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAACTAGAAAACGAAGAACTGCTCCTTCCT 627
DB 6595 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAACTAGAAAACGAAGAACTGCTCCTTCCT 6654
QY 628 GCCTTCTAAAAGAAACAATAAGATCCCTGAATGGACTTTTACTAAAGAAAGTGAGAA 687
DB 6655 GCCTTCTAAAAGAAACAATAAGATCCCTGAATGGACTTTTACTAAAGAAAGTGAGAA 6714
QY 688 GCTAACGTCACCATCATCTAGAGATTTCACATGAACCTGGCTCAGTTGAAAGAGAAA 747
DB 6715 GCTAACGTCACCATCATCTAGAGATTTCACATGAACCTGGCTCAGTTGAAAGAGAAA 6774
QY 748 TAGTGTCAAGTTGTCATGAGACCGAGAGTAGACTTTGATTAACCAAGAAAGTTCAATTGACA 807
DB 6775 TAGTGTCAAGTTGTCATGAGACCGAGAGTAGACTTTGATTAACCAAGAAAGTTCAATTGACA 6834
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DB 6835 ATATTTTATGTCATGATTAATGCAACAGAAAAAGTAGTACTTTTAAAAAATGTTTGAA 6894
QY 868 AGAGGTTACCTCTCATCTCTAGAGAAAGCCTATGTAACCTTCATTTCCATACCAA 927
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QY 1048 ATTTATGATAAATCACTATAGAACAAAGATATCTTAGGCTTTAATAACACATGAATATCA 1107
DB 7074 ATTTATGATAAATCACTATAGAACAAAGATATCTTAGGCTTTAATAACACATGAATATCA 7133
QY 1108 TAAA 1111
DB 7134 TAAA 7137

RESULT 14
US-09-354-243B-8
; Sequence 8, Application US/09354243B
; Patent No. 6359117
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/09/419, 568F

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OM nucleic - nucleic search, using sw model

Run on: December 20, 2005, 13:17:16 ; Search time 555.632 Seconds
(without alignments)
16534.837 Million cell updates/sec

Title: US-09-751-797-9

Perfect score: 1111

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Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications NA_Main:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1111	100.0	1111	7	US-10-627-273-9
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4	1049.4	94.5	1166	6	US-10-256-977-3
5	1049.4	94.5	1166	8	US-10-873-972-3
6	1049.4	94.5	1166	10	US-11-157-387-3
7	1048.4	94.4	1050	5	US-10-090-365-40
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28	525.6	47.3	1152	5	US-10-006-867-153	Sequence 153, App
29	525.6	47.3	1152	5	US-10-066-500-125	Sequence 125, App
30	525.6	47.3	1152	5	US-10-063-547-153	Sequence 153, App
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38	525.6	47.3	1152	5	US-10-227-884-243	Sequence 243, App
39	525.6	47.3	1152	5	US-10-002-796-125	Sequence 125, App
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43	525.6	47.3	1152	5	US-10-063-554-153	Sequence 153, App
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45	525.6	47.3	1152	5	US-10-066-269-125	Sequence 125, App

ALIGNMENTS

RESULT 1

US-09-751-797-9

; Sequence 9, Application US/09751797

; Patent No. US20010024652A1

; GENERAL INFORMATION:

; APPLICANT: Dumoutier, Laure

; APPLICANT: Leuhed, Jamila

; APPLICANT: Renaud, Jean-Christophe

; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac

; FILE OF INVENTION: (Tifs) The Proteins Encoded, and Uses Thereof

; FILE REFERENCE: LUD 5543.2

; CURRENT APPLICATION NUMBER: US/09/751,797

; CURRENT FILING DATE: 2000-12-29

; PRIOR APPLICATION NUMBER: 09/419,568

; PRIOR FILING DATE: 1999-10-18

; PRIOR APPLICATION NUMBER: US09/178,973

; PRIOR FILING DATE: 1998-10-26

; NUMBER OF SEQ ID NOS: 29

; SEQ ID NO 9

; LENGTH: 1111

; TYPE: DNA

; ORGANISM: Mus musculus

; FEATURE:

US-09-751-797-9

Query Match 100.0%; Score 1111; DB 3; Length 1111;
Best Local Similarity 100.0%; Pred. No. 7.4e-229;
Matches 1111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db	1	AACAGGCTCTCTCTCAGTTATCACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT	60
Qy	61	GCAGAAATCTATGAGTTTTTCCCTTATGGGAGCTTTGGCCGCGAGCTGCTGCTTCAT	120
Db	61	GCAGAAATCTATGAGTTTTTCCCTTATGGGAGCTTTGGCCGCGAGCTGCTGCTTCAT	120
Qy	121	TGCCCTGTGGCCCGCAGGCAATCGCTGCCCATCAACACCGGTGCAAGCTTGAGGT	180
Db	121	TGCCCTGTGGCCCGCAGGCAATCGCTGCCCATCAACACCGGTGCAAGCTTGAGGT	180
Qy	181	GTCCTAACTTCCACGACCGGTACATGTCACCCACCTTTATGCTGSCCAAGGAGGCCAG	240
Db	181	GTCCTAACTTCCACGACCGGTACATGTCACCCACCTTTATGCTGSCCAAGGAGGCCAG	240
Qy	241	CTTTCAGATAACAACACAGACGTCGGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG	300

Qy 841 AGTATGTACTTTAAATAATGTTTGAAGAGGTTACCTCTCATCTCTAGAGAAAG 900
Db |||||
841 AGTATGTACTTTAAATAATGTTTGAAGAGGTTACCTCTCATCTCTAGAGAAAG 900
Qy CCTATGTAACTTCAATCCATACCAATACCTTTATATATATATATATATATATAT 960
Db |||||
901 CCTATGTAACTTCAATCCATACCAATACCTTTATATATATATATATATATATAT 960
Qy ATACATTTTATTTATGTAGTTCAGTTTATTAATATGATTTTATATAGAAAAATTTATCTGATG 1020
Db |||||
961 ATACATTTTATTTATGTAGTTCAGTTTATTAATATGATTTTATATAGAAAAATTTATCTGATG 1020
Qy TTGATATTTAGTATAAGCAATAATATATTTATGATATAATACATATAGAAAAATATCT 1080
Db |||||
1021 TTGATATTTAGTATAAGCAATAATATATTTATGATATAATACATATAGAAAAATATCT 1080
Qy TAGGCTTTAATAACACATGAATATCATAAA 1111
Db |||||
1081 TAGGCTTTAATAACACATGAATATCATAAA 1111

RESULT 3

US-10-084-298-3
; Sequence 3, Application US/10084298
; Publication No. US20030099649A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: Pittman, Debra
; APPLICANT: Fouser, Lynette
; APPLICANT: Spaulding, Vikki
; APPLICANT: Xuan, Dejun
; TITLE OF INVENTION: Composition and Method for Treating Inflammatory
; FILE REFERENCE: GI5358 CIP
; CURRENT APPLICATION NUMBER: US/10/084,298
; CURRENT FILING DATE: 2002-09-10
; PRIOR APPLICATION NUMBER: 60/270,823
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/281,353
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: 60/131,473
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/561,811
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1166
; TYPE: DNA
; ORGANISM: Murine
US-10-084-298-3

Query Match 94.5%; Score 1049.4; DB 5; Length 1166;
Best Local Similarity 97.1%; Pred. No. 1.4e-215;
Matches 1079; Conservative 0; Mismatches 31; Indels 1; Gaps 1;

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Db |||||
26 AACAGGCTCTCCCTCAGTTTATCAACTTTTGACACTTTGCGGATCGGTGATGCTGCT 85
Qy 61 GCAGAAATCTATGAGTTTTCCTTTATGCGGACTTTTGGCCGCCAGCTGCTGCTTCAT 120
Db |||||
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Qy 121 TGGCCTGTGGCCCGAGAGCAATATGCGTGCCCATCAACACCCGGTGCAGCTTGAGGT 180
Db |||||
146 TGGCCTGTGGCCCGAGAGCAATATGCGTGCCCATCAACACCCGGTGCAGCTTGAGGT 205
Qy 181 GTCCAACTTCCAGCAGCCGTCATCGTCAACCCGACCTTTATGCTGGCCAGGAGCCAG 240
Db |||||
206 GTCCAACTTCCAGCAGCCGTCATCGTCAACCCGACCTTTATGCTGGCCAGGAGCCAG 265

Qy 241 CTTTGAGATATAACAACACAGACGTCGGGCTCATCGGGAGAAACTGTTCGAGAGTCTAG 300
Db |||||
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Qy TGCCTAAGGATCAGTGTCTGATGATGAGCAGAGTCTCACTTCCACCTCGAAGACATCTCT 360
Db |||||
326 TGCCTAAGGATCAGTGTCTGATGATGAGCAGAGTCTCACTTCCACCTCGAAGACATCTCT 385
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386 GCTCCGCCCATCTCAGACAGGTTCCAGCCCTACATCGCAGGAGTGTGCTTTCCTGACCAA 445
Qy ACTCAGCAATCAGCTCAGCTCCTGTGTCACTCAGTGTGAGCAGCAGCAATCCAGAGAA 480
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446 ACTCAGCAATCAGCTCAGCTCCTGTGTCACTCAGCAGGAGCAGCAGCAATCCAGAGAA 505
Qy TGTCAAGAGGCTCAAGGAGCAGTGAAGAGCTTTGGAGAGGCGGAGAGATCAAGCGAT 540
Db |||||
506 TGTCAAGAGGCTCAAGGAGCAGTGAAGAGCTTTGGAGAGGCGGAGAGATCAAGCGAT 565
Qy CGGGGAACCTGGACCTGCTGTTTATGCTCTGAGAAATGCTTGGCTCTGAGCAGAGAAAG 600
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566 TGGGGAACTGGACCTGCTGTTTATGCTCTGAGAAATGCTTGGCTCTGAGCAGAGAAAG 625
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Qy CTTGATAAACACAAAGATTCATTGACAAATATTTTATTTTATGATTAATGCAACAGAAAA 840
Db |||||
806 CTTGATAAACACAAAGATTCATTGACAAATATTTTATTTTGTCACTGATGATACACAGAAAA 865
Qy AGTATGCTACTTTTAAATAATGTTTGAAGAGGAGTACCTCTCATCTCTAGAGAAAG 900
Db |||||
866 ATAATGTACTTTTAAATAATGTTTGAAGAGGAGTACCTCTCATCTCTTCTTCTTCTTCT 925
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926 CTTATGTAACTTCAATTTCCATAACCAATCTTTATATATGTAAGTTTATTTATTAAGT 985
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Db |||||
1105 TAGGCTTTTAAATAACACATGAATATCATAAA 1135

RESULT 4

US-10-256-977-3
; Sequence 3, Application US/10256977
; Publication No. US20030157106A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: Pittman, Debra
; APPLICANT: Fouser, Lynette
; APPLICANT: Spaulding, Vikki
; APPLICANT: Xuan, Dejun
; TITLE OF INVENTION: Composition and Method for Treating Inflammatory
; Disorders

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; FILE REFERENCE: GI5358 CIP
; CURRENT APPLICATION NUMBER: US/10/256,977
; CURRENT FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: US/10/084,298
; PRIOR FILING DATE: 2002-09-10
; PRIOR APPLICATION NUMBER: 60/270,823
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/281,353
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: 60/131,473
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/561,811
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 3
; LENGTH: 1166
; TYPE: DNA
; ORGANISM: Murine
US-10-256-977-3

Query Match      94.5%; Score 1049.4; DB 6; Length 1166;
Best Local Similarity 97.1%; Pred. No. 1.4e-215;
Matches 1079; Conservative 0; Mismatches 31; Indels 1; Gaps 1;

Qy 1 AACAGGCTCTCCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT 60
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Qy 361 GCTCCCCAGTCAGACAGGTTCCGGCCCTCATCGCGAGGTGCTGCTTCTCTGACCAA 420
Db 386 GCTCCCCAGTCAGACAGGTTCCAGCCCTCATCGAGGAGGTGCTGCTTCTCTGACCAA 445

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Db 446 ACTCAGCAATCAGTCTCAGTCTCTGTGCATCAGCGGTGACGACGAGACATCCAGAGAA 505

Qy 481 TGTCAAGAGGTGAAGGAGAGACAGTGAAAGAAAGCTTGGAGAGAGCGGAGAGATCAAGCGAT 540
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Qy 841 AGTATGTACTTTTAAAAAATTTGTTGAAAGGAGGTACCTCTCATTTCTCTAGAGAAAAAG 900
Db 866 ATAATGTACTTTTAAAAAATTTGTTGAAAGGAGGTACCTCTCATTTCTCTAGAGAAAAAG 925

Qy 901 CCTATGTAACTTCATTTCCTAATAACCAATCTTTATATATATGTAAGTTTATTTATTAAGT 960
Db 926 CTTATGTAACTTCATTTCCTAATAACCAATCTTTATATATATGTAAGTTTATTTATTAAGT 985

Qy 961 ATACATTTTATTTATGTCAAGTTTATTAATGAGATTTATTTATAGAAAAATTTATCTGATG 1020
Db 986 ATACATTTTATTTATGTCAAGTTTATTAATGAGATTTATTTATAGAAAAATTTATCTGCTA 1045

Qy 1021 TTGATATTTTGAGTATAAGCAAAATAATATTTATGATAATAACTATAGAAAAACAAGATATCT 1080
Db 1046 TTGATATTTT-AGTATAAGGCAAAATAATATTTATGACAAATACTATGGAACAAGATATCT 1104

Qy 1081 TAGGCTTTAATAAACACATCAATATCATAAA 1111
Db 1105 TAGGCTTTAATAAACACATGATATCATAAA 1135

RESULT 5
US-10-873-972-3
; Sequence 3, Application US/10873972
; Publication No. US2005004220A1
; GENERAL INFORMATION:
; APPLICANT: Li, Jing
; APPLICANT: Tan, Xiang-Yang
; APPLICANT: Tomkinson, Kathleen N.
; APPLICANT: Pittman, Debra D.
; APPLICANT: Veldman, Geertruida M.
; APPLICANT: Fouser, Lynette
; TITLE OF INVENTION: Antibodies Against Interleukin-22 and Uses Therefor
; FILE REFERENCE: AM101524
; CURRENT APPLICATION NUMBER: US/10/873,972
; CURRENT FILING DATE: 2004-06-22
; PRIOR APPLICATION NUMBER: US 60/480,652
; PRIOR FILING DATE: 2003-06-23
; PRIOR APPLICATION NUMBER: US 10/084,298
; PRIOR FILING DATE: 2002-02-25
; PRIOR APPLICATION NUMBER: US 60/270,823
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: US 60/281,353
; PRIOR FILING DATE: 2001-04-03
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 1166
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-873-972-3

Query Match      94.5%; Score 1049.4; DB 8; Length 1166;
Best Local Similarity 97.1%; Pred. No. 1.4e-215;
Matches 1079; Conservative 0; Mismatches 31; Indels 1; Gaps 1;

Qy 1 AACAGGCTCTCCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT 60
Db 26 AACAGGCTCTCCTCAGTTATCAACTTTTGACACTTGTGCGATCTCTGATGGCTGTCCT 85

Qy 61 GCAGAAATCTATGATGTTTTCCCTTATGGGACATTTGGCCGCCAGCTGCTTCTCAT 120
Db 86 GCAGAAATCTATGATGTTTTCCCTTATGGGACATTTGGCCGCCAGCTGCTTCTCAT 145

Qy 121 TGCCCTGTGGGCCCAGGAGGCAAAATGCGCTGCCCATCAACCCCGGTGCAAGCTTGAGGT 180
Db 146 TGCCCTGTGGGCCCAGGAGGCAAAATGCGCTGCCCATCAACCCCGGTGCAAGCTTGAGGT 205

Qy 181 GTCCAACTTCAGACAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGGAGGCCAG 240
Db 206 GTCCAACTTCAGACAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGGAGGCCAG 265

Qy 241 CTTTGCAGATAACAAACAGACAGTCCCGCTCATCGGGAGAGAACTGTTCCGAGGAGTCAG 300
Db 266 CTTTGCAGATAACAAACAGAGATGTCGGCTCATCGGGAGAGAACTGTTCCGAGGAGTCAG 325

Qy 301 TGCTAAGGATCAGTGTCTACCTGATGAAGCAGGTGCTCAACTTCCACCTTGGGAAGACATTC 360
Db 326 TGCTAAGGATCAGTGTCTACCTGATGAAGCAGGTGCTCAACTTCCACCTTGGGAAGACATTC 385

Qy 361 GCTCCCCAGTCAGACAGGTTCCGGCCCTCATCGCGAGGTGCTGCTTCTCTGACCAA 420
Db 386 GCTCCCCAGTCAGACAGGTTCCAGCCCTCATCGAGGAGGTGCTGCTTCTCTGACCAA 445

Qy 421 ACTCAGCAATCAGTCTCAGTCTCTGTGCATCAGTGTGACGACGAGGTGCTGCTTCTCTGACAA 480
Db 446 ACTCAGCAATCAGTCTCAGTCTCTGTGCATCAGCGGTGACGACGAGACATCCAGAGAA 505

Qy 481 TGTCAAGAGGTGAAGGAGAGACAGTGAAAGAAAGCTTGGAGAGAGCGGAGAGATCAAGCGAT 540
Db 506 TGTCAAGAGGTGAAGGAGAGACAGTGAAAGAAAGCTTGGAGAGAGTGGAGAGATCAAGCGAT 565

Qy 541 CGGGAACTGGACCTGCTGTTTATGCTCTCAGAAATGCTTGGCTCTGAGCGAGGAGAGAG 600
Db 566 TGGGAACTGGACCTGCTGTTTATGCTCTCAGAAATGCTTGGCTCTGAGCGAGGAGAGAG 625

Qy 601 CTAGAAAACGAGAACTGCTCTCTCTGCTTCTAAAAAGAAACAATAAGATCCCTGATG 660
Db 626 CTAGAAAACGAGAACTGCTCTCTCTGCTTCTAAAAAGAAACAATAAGATCCCTGATG 685

Qy 661 GACTTTTTTACTAAAGGAAAGTGAGAGAGCTAACGTTCCACCATCATTAAGAAATTTCAAT 720
Db 686 GACTTTTTTACTAAAGGAAAGTGAGAGAGCTAACGTTCCATCATTAAGAAATTTCAAT 745
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Db 146 TGGCCCTGTGGCCCGCAGGAGGAAATGCGTGCCTCAACACCGGTCAGAGCTTGAGGT 205
Qy 181 GTCCAACTTCAGCAGCGCGTACATCGTCAACCGCACCTTTATGTGCGCCAAAGAGGCGAG 240
Db 206 GTCCAACTTCAGCAGCGCGTACATCGTCAACCGCACCTTTATGTGCGCCAAAGAGGCGAG 265
Qy 241 CTTTGAGATAAACAACAAGAGGTCGCGCTCATCGGGGAGAACTGTTCGAGAGGTCAG 300
Db 266 CTTTGAGATAAACAACAAGAGGTCGCGCTCATCGGGGAGAACTGTTCGAGAGGTCAG 325
Qy 301 TGGTAAGGATCAGTGTACCTGTATGAGCAGGTCCTCAACTTCACCTCGAAGACATTCCT 360
Db 326 TGGTAAGGATCAGTGTACCTGTATGAGCAGGTCCTCAACTTCACCTCGAAGACATTCCT 385
Qy 361 GCTCCCCCAGTCAGACAGGTTCCGGCCCTCATCGAGGAGTGTGCTTTCTTCGACCAA 420
Db 386 GCTCCCCCAGTCAGACAGGTTCCGGCCCTCATCGAGGAGTGTGCTTTCTTCGACCAA 445
Qy 421 ACTCAGCAATCAGCTCAGCTCCTGTGTACATCAGTGTGAGCAGCAGCAATCCAGAGAA 480
Db 446 ACTCAGCAATCAGCTCAGCTCCTGTGTACATCAGTGTGAGCAGCAGCAATCCAGAGAA 505
Qy 481 TGTGAGAGGCTGAGGAGCAGTGAAGAGCTTGGAGAGCGGAGAGATCAAGCGAT 540
Db 506 TGTGAGAGGCTGAGGAGCAGTGAAGAGCTTGGAGAGCGGAGAGATCAAGCGAT 565
Qy 541 CGGGGAACTGACCTGCTGTTATGCTCTGAGAAATGCTTGGCTGTGAGCGAGAGAG 600
Db 566 TGGGGAATGAGCTGCTGTTATGCTCTGAGAAATGCTTGGCTGTGAGCGAGAGAG 625
Qy 601 CTAGAAAACGAGAACTGCTCCTTCTGCTTCTTAAAGAGCAATTAAGATCCCTGAATG 660
Db 626 CTAGAAAACGAGAACTGCTCCTTCTGCTTCTTAAAGAGCAATTAAGATCCCTGAATG 685
Qy 661 GACTTTTACTAAGAGAGTGAAGAGCTAAAGTCCACATCATTTAGAGATTTACAT 720
Db 686 GACTTTTACTAAGAGAGTGAAGAGCTAAAGTCCACATCATTTAGAGATTTACAT 745
Qy 721 GAAACCTGGCTCAGTTGAAAGAGAAATAGTGTCAAGTGTTCATGAGACGAGGTTAGA 780
Db 746 GAAACCTGGCTCAGTTGAAAGAGAAATAGTGTCAAGTGTTCATGAGACGAGGTTAGA 805
Qy 781 CTTGATAACCAAGAGTTCATTTGACATATTTTATTTGTCATTTGATAATGCAAGAGAA 840
Db 806 CTTGATAACCAAGAGTTCATTTGACATATTTTATTTGTCATTTGATAATGCAAGAGAA 865
Qy 841 AGTATGATCTTTAAAGATTTGTTGAAAGAGGTTACCTCTCATTTCTAGAGAGAAAG 900
Db 866 ATAATGATCTTTAAAGATTTGTTGAAAGAGGTTACCTCTCATTTCTAGAGAGAAAG 925
Qy 901 CCTATGTAATCTTCAATTTCCATACCAATATCTTTATATATGTAAGTTTATTTATTAAGT 960
Db 926 CTTATGTAATCTTCAATTTCCATACCAATATTTTATATATGTAAGTTTATTTATTAAGT 985
Qy 961 ATACATTTTATTTATGTCAGTTTATTAATATGATTTTATTTATAGAAAATTTATCTGATG 1020
Db 986 ATACATTTTATTTATGTCAGTTTATTAATATGATTTTATTTATAGAAAATTTATCTGTA 1045
Qy 1021 TTGATATTTGAGTATTAAGCAATATATTTATGATTAATTAATATAGAAAATTTATCTATCT 1080
Db 1046 TTGATATTT-AGTATAGGCAATATATTTATGATTAATTAATATAGAAAATTTATCTATCT 1104
Qy 1081 TAGGCTTTTATTAACATCATGAATATCATAA 1111
Db 1105 TAGGCTTTTATTAACATCATGAATATCATAA 1135

RESULT 6
US-11-157-387-3
; Sequence 3, Application US/11157387
; Publication No. US20050238649A1
; GENERAL INFORMATION:

; APPLICANT: Jacobs, Kenneth
; APPLICANT: Pittman, Debra
; APPLICANT: Fouser, Lynette
; APPLICANT: Spaulding, Vikki
; APPLICANT: Xuan, Dejun
; TITLE OF INVENTION: Composition and Method for Treating Inflammatory
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: G15358 CIP
; CURRENT FILING DATE: 2005-06-20
; PRIOR FILING DATE: 2002-09-10
; PRIOR APPLICATION NUMBER: US/10/084,298
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/281,353
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: 60/131,473
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/561,811
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1166
; TYPE: DNA
; ORGANISM: Murine
US-11-157-387-3

Query Match 94.5%; Score 1049.4; DB 10; Length 1166;
Best Local Similarity 97.1%; Pred. No. 1.4e-215;
Matches 1079; Conservative 0; Mismatches 31; Indels 1; Gaps 1;

Qy 1 AACAGGCTCTCTCTCAGTTATCAACTTTTGACACTTTGTCGATCGTGATGCTGCT 60
Db 26 AACAGGCTCTCTCTCAGTTATCAACTTTTGACACTTTGTCGATCTGTGCTGCT 85
Qy 61 GCAGAAATCTATGAGTTTTCCTTATGAGGACTTTGGCGCCAGCTGCTGCTTCAT 120
Db 86 GCAGAAATCTATGAGTTTTCCTTATGAGGACTTTGGCGCCAGCTGCTGCTTCAT 145
Qy 121 TGGCTGTGGCCAGGAGCAATGCGTGCCTCATCAACCGGTCGAGCTTGAGGT 180
Db 146 TGGCTGTGGCCAGGAGCAATGCGTGCCTCATCAACCGGTCGAGCTTGAGGT 205
Qy 181 GTCCAACTTCAGCAGCGGTACATCGTCAACCGCACCTTTATGTGCGCCAAAGAGGCGAG 240
Db 206 GTCCAACTTCAGCAGCGGTACATCGTCAACCGCACCTTTATGTGCGCCAAAGAGGCGAG 265
Qy 241 CTTTGAGATAAACAACAAGAGGTCGCGCTCATCGGGGAGAACTGTTCGAGAGGTCAG 300
Db 266 CTTTGAGATAAACAACAAGAGGTCGCGCTCATCGGGGAGAACTGTTCGAGAGGTCAG 325
Qy 301 TGGTAAGGATCAGTGTACCTGTATGAGCAGGTCCTCAACTTCACCTCGAAGACATTCCT 360
Db 326 TGGTAAGGATCAGTGTACCTGTATGAGCAGGTCCTCAACTTCACCTCGAAGACATTCCT 385
Qy 361 GCTCCCCCAGTCAGACAGGTTCCGGCCCTCATCGAGGAGTGTGCTTTCTTCGACCAA 420
Db 386 GCTCCCCCAGTCAGACAGGTTCCGGCCCTCATCGAGGAGTGTGCTTTCTTCGACCAA 445
Qy 421 ACTCAGCAATCAGCTCAGCTCCTGTGTACATCAGTGTGAGCAGCAGCAATCCAGAGAA 480
Db 446 ACTCAGCAATCAGCTCAGCTCCTGTGTACATCAGCAGCAGCAGCAATCCAGAGAA 505
Qy 481 TGTGAGAGGCTGAGGAGCAGTGAAGAGCTTGGAGAGCGGAGAGATCAAGCGAT 540
Db 506 TGTGAGAGGCTGAGGAGCAGTGAAGAGCTTGGAGAGCGGAGAGATCAAGCGAT 565
Qy 541 CGGGGAACTGACCTGCTGTTATGCTCTGAGAAATGCTTGGCTGTGAGCGAGAGAG 600
Db 566 TGGGGAATGAGCTGCTGTTATGCTCTGAGAAATGCTTGGCTGTGAGCGAGAGAG 625
Qy 601 CTAGAAAACGAGAACTGCTCCTTCTGCTTCTTAAAGAGCAATTAAGATCCCTGAATG 660


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; APPLICANT: Presnell, Scott R.
; APPLICANT: Xu, Wenfeng
; APPLICANT: Kindsvogel, Wayne
; APPLICANT: Chen, Zhi
; APPLICANT: Hughes, Steven D.
; TITLE OF INVENTION: Human Cytokine Receptor
; FILE REFERENCE: 01-12
; CURRENT APPLICATION NUMBER: US/10/104,919
; CURRENT FILING DATE: 2002-03-23
; PRIOR APPLICATION NUMBER: US 60/279,222
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 1050
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (5)...(589)
US-10-104-919-42

Query Match          94.4%; Score 1048.4; DB 5; Length 1050;
Best Local Similarity 99.9%; Pred. No. 2.2e-215;
Matches 1049; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AACAGGCTCTCTCTCAGTTATCAACTTTTGACACTTTGTGCGATCGGTGATGCTGTCT 60
DB 1 AACAGGCTCTCTCTCAGTTATCAACTTTTGACACTTTGTGCGATCGGTGATGCTGTCT 60
QY 61 GCAGAAATCTATGAGTTTTCCCTTATGGGAATTTGGCCGCGAGCTGCTGTCTCAT 120
DB 61 GCAGAAATCTATGAGTTTTCCCTTATGGGAATTTGGCCGCGAGCTGCTGTCTCAT 120
QY 121 TGGCCTGTGGCCGCGAGGCAATGCGCTGCCATCAACCCGGTGCAAGTTGAGGT 180
DB 121 TGGCCTGTGGCCGCGAGGCAATGCGCTGCCATCAACCCGGTGCAAGTTGAGGT 180
QY 181 GTCCAACTTCCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGGAGGCCAG 240
DB 181 GTCCAACTTCCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGGAGGCCAG 240
QY 241 CTTTGAGATAAACAACAGAGCTCGGCTCATCGGGGAGAAACTGTTCGAGAGGTGAG 300
DB 241 CTTTGAGATAAACAACAGAGCTCGGCTCATCGGGGAGAAACTGTTCGAGAGGTGAG 300
QY 301 TGCTAAGGATCAGTGTCTACCTGATGAGCAGGTGCTCAACTTCACTTGGCAAGCATTTCT 360
DB 301 TGCTAAGGATCAGTGTCTACCTGATGAGCAGGTGCTCAACTTCACTTGGCAAGCATTTCT 360
QY 361 GCTCCCCAGTCAAGAGGTTCCGGCCCTACATGACGAGGTGCTGCTTTCTTGACCAA 420
DB 361 GCTCCCCAGTCAAGAGGTTCCGGCCCTACATGACGAGGTGCTGCTTTCTTGACCAA 420
QY 421 ACTCAGCAATCAGTCAAGTCTCTGTCAATCAGTGTGACGACCAAGCAATCCAGAGAA 480
DB 421 ACTCAGCAATCAGTCAAGTCTCTGTCAATCAGTGTGACGACCAAGCAATCCAGAGAA 480
QY 481 TGTCAAGGCTGAGAGAGACAGTGAAGAAAGCTTTGGAGAGGCGGAGAGATCAAGCGAT 540
DB 481 TGTCAAGGCTGAGAGAGACAGTGAAGAAAGCTTTGGAGAGGCGGAGAGATCAAGCGAT 540
QY 541 CGGGGACCTGAGCTGCTTTATGCTCTGAGAAATGCTTGGCTCTGAGCAGAGAGAAAG 600
DB 541 CGGGGACCTGAGCTGCTTTATGCTCTGAGAAATGCTTGGCTCTGAGCAGAGAGAAAG 600
QY 601 CTAGAAAACGAGAACTGCTCTTCTGCTTCTTAAAGAAACAATAAGATCCCTGAATG 660
DB 601 CTAGAAAACGAGAACTGCTCTTCTGCTTCTTAAAGAAACAATAAGATCCCTGAATG 660
QY 661 GACTTTTTTCTAAGGAAGTGAAGAGCTAAAGTCCACCATCATTTAGAAAGATTTACAT 720
DB 661 GACTTTTTTCTAAGGAAGTGAAGAGCTAAAGTCCACCATCATTTAGAAAGATTTACAT 720

RESULT 9
US-10-807-837-10
; Sequence 10, Application US/10807837
; Publication No. US20040209330A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Wenfeng
; APPLICANT: Kindsvogel, Wayne
; APPLICANT: Chandrasekhar, Yasmin A.
; APPLICANT: Dillon, Stacey R.
; APPLICANT: Lehner, Joyce M.
; APPLICANT: Siadak, Anthony W.
; APPLICANT: Sivakumar, Pallavur V.
; APPLICANT: Moore, Margaret D.
; TITLE OF INVENTION: ANTI-IL-22RA ANTIBODIES AND BINDING
; PARTNERS AND METHODS OF USING IN INFLAMMATION
; FILE REFERENCE: 03-02
; CURRENT APPLICATION NUMBER: US/10/807,837
; CURRENT FILING DATE: 2004-03-24
; PRIOR APPLICATION NUMBER: US 60/457,481
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 60/523,295
; PRIOR FILING DATE: 2003-11-17
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 1050
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (5)...(589)
US-10-807-837-10

Query Match          94.4%; Score 1048.4; DB 8; Length 1050;
Best Local Similarity 99.9%; Pred. No. 2.2e-215;
Matches 1049; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AACAGGCTCTCTCTCAGTTATCAACTTTTGACACTTTGTGCGATCGGTGATGCTGTCT 60
DB 1 AACAGGCTCTCTCTCAGTTATCAACTTTTGACACTTTGTGCGATCGGTGATGCTGTCT 60
QY 61 GCAGAAATCTATGAGTTTTCCCTTATGGGAATTTGGCCGCGAGCTGCTGTCTCAT 120
DB 61 GCAGAAATCTATGAGTTTTCCCTTATGGGAATTTGGCCGCGAGCTGCTGTCTCAT 120
QY 121 TGGCCTGTGGCCGCGAGGCAATGCGCTGCCATCAACCCGGTGCAAGTTGAGGT 180
DB 121 TGGCCTGTGGCCGCGAGGCAATGCGCTGCCATCAACCCGGTGCAAGTTGAGGT 180
QY 181 GTCCAACTTCCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGGAGGCCAG 240
DB 181 GTCCAACTTCCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGGAGGCCAG 240
QY 241 CTTTGAGATAAACAACAGAGCTCGGCTCATCGGGGAGAAACTGTTCGAGAGGTGAG 300
DB 241 CTTTGAGATAAACAACAGAGCTCGGCTCATCGGGGAGAAACTGTTCGAGAGGTGAG 300
QY 301 TGCTAAGGATCAGTGTCTACCTGATGAGCAGGTGCTCAACTTCACTTGGCAAGCATTTCT 360
DB 301 TGCTAAGGATCAGTGTCTACCTGATGAGCAGGTGCTCAACTTCACTTGGCAAGCATTTCT 360
QY 361 GCTCCCCAGTCAAGAGGTTCCGGCCCTACATGACGAGGTGCTGCTTTCTTGACCAA 420
DB 361 GCTCCCCAGTCAAGAGGTTCCGGCCCTACATGACGAGGTGCTGCTTTCTTGACCAA 420
QY 421 ACTCAGCAATCAGTCAAGTCTCTGTCAATCAGTGTGACGACCAAGCAATCCAGAGAA 480
DB 421 ACTCAGCAATCAGTCAAGTCTCTGTCAATCAGTGTGACGACCAAGCAATCCAGAGAA 480
QY 481 TGTCAAGGCTGAGAGAGACAGTGAAGAAAGCTTTGGAGAGGCGGAGAGATCAAGCGAT 540
DB 481 TGTCAAGGCTGAGAGAGACAGTGAAGAAAGCTTTGGAGAGGCGGAGAGATCAAGCGAT 540
QY 541 CGGGGACCTGAGCTGCTTTATGCTCTGAGAAATGCTTGGCTCTGAGCAGAGAGAAAG 600
DB 541 CGGGGACCTGAGCTGCTTTATGCTCTGAGAAATGCTTGGCTCTGAGCAGAGAGAAAG 600
QY 601 CTAGAAAACGAGAACTGCTCTTCTGCTTCTTAAAGAAACAATAAGATCCCTGAATG 660
DB 601 CTAGAAAACGAGAACTGCTCTTCTGCTTCTTAAAGAAACAATAAGATCCCTGAATG 660
QY 661 GACTTTTTTCTAAGGAAGTGAAGAGCTAAAGTCCACCATCATTTAGAAAGATTTACAT 720
DB 661 GACTTTTTTCTAAGGAAGTGAAGAGCTAAAGTCCACCATCATTTAGAAAGATTTACAT 720
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Db 121 TGCCTCTGGGCCCAGGAGGCAAAATGCGCTGCCCATCAACACCCGGTCAAGCTTGAGGT 180
Qy 181 GTCCAACTTCAGACAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGGAGGCCAG 240
Db 181 GTCCAACTTCAGACAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGGAGGCCAG 240
Qy 241 CCTTGAGATAAACAACACAGACAGCTCCGGCTCATCGGGGAGAAACTGTTCCGAGAGTCAG 300
Db 241 CCTTGAGATAAACAACACAGACAGCTCCGGCTCATCGGGGAGAAACTGTTCCGAGAGTCAG 300
Qy 301 TGCTAAGATCAGTGTCTACCTGATGAAGACAGGTGCTCAACTTCAACCTCGAAGACATTCCT 360
Db 301 TGCTAAGATCAGTGTCTACCTGATGAAGACAGGTGCTCAACTTCAACCTCGAAGACATTCCT 360
Qy 361 GCTCCCCAGTCACAGAGTTCGGGCCCTCATCGAGAGGTGCTTTCCTTGACCAA 420
Db 361 GCTCCCCAGTCACAGAGTTCGGGCCCTCATCGAGAGGTGCTTTCCTTGACCAA 420
Qy 421 ACTCAGCAATCAGTGTCTGCTCAGTGTGACATCAGTGGTGAACACCAAGAACATCCAGAGAA 480
Db 421 ACTCAGCAATCAGTGTCTGCTCAGTGTGACATCAGTGGTGAACACCAAGAACATCCAGAGAA 480
Qy 481 TGTGAGAGGCTGAAGGAGACAGTGAAGAAAGCTTGGAGAGCGGAGATCAAAAGCGAT 540
Db 481 TGTGAGAGGCTGAAGGAGACAGTGAAGAAAGCTTGGAGAGCGGAGATCAAAAGCGAT 540
Qy 541 CGGGAACTGACCTGCTGTTTATGCTCTGAGAAATGCTGCGTCTGAGCGGAGAAAG 600
Db 541 CGGGAACTGACCTGCTGTTTATGCTCTGAGAAATGCTGCGTCTGAGCGGAGAAAG 600
Qy 601 CTAGAAAACGAAGAACTGCTCCTTCCCTGCTTCTAAGAAAGAACTAAGATCCCTGAATG 660
Db 601 CTAGAAAACGAAGAACTGCTCCTTCCCTGCTTCTAAGAAAGAACTAAGATCCCTGAATG 660
Qy 661 GACTTTTTTACTAAGGAAAGTGAGAGCTAAAGTCCACCATCAATTAGAAGATTCACAT 720
Db 661 GACTTTTTTACTAAGGAAAGTGAGAGCTAAAGTCCACCATCAATTAGAAGATTCACAT 720
Qy 721 GAAACCTGGCTCAGTGTGAAGAGAAATAGTGTCAAGTGTCCATGACGACGAGGTAGA 780
Db 721 GAAACCTGGCTCAGTGTGAAGAGAAATAGTGTCAAGTGTCCATGACGACGAGGTAGA 780
Qy 781 CTTGATAACCAAGAGTTCATTGACAAATATTTTATGTCATTGATTAATGCAACAGAAAA 840
Db 781 CTTGATAACCAAGAGTTCATTGACAAATATTTTATGTCATTGATTAATGCAACAGAAAA 840
Qy 841 AGTATGACTTTAAAAAATGTTTGAAGGAGGTACCTCTCATTCCTCTAGAGAAAG 900
Db 841 AGTATGACTTTAAAAAATGTTTGAAGGAGGTACCTCTCATTCCTCTAGAGAAAG 900
Qy 901 CCTATGTAACCTTCATTCCATAACCAATACCTTTATATATGTAAGTTTATTTATTAAGT 960
Db 901 CCTATGTAACCTTCATTCCATAACCAATACCTTTATATATGTAAGTTTATTTATTAAGT 960
Qy 961 ATACATTTTATTTATGTCAGTTTATTAATATGGAATTTATTTATAGAAAAATTAATCTGATG 1020
Db 961 ATACATTTTATTTATGTCAGTTTATTAATATGGAATTTATTTATAGAAAAATTAATCTGATG 1020
Qy 1021 TTGATATTTGAGTATAAGCAAAATAATT 1050
Db 1021 TTGATATTTGAGTATAAGCAAAATAATT 1050

RESULT 10
US-10-968-432-42
; Sequence 42, Application US/10968432
; Publication No. US20050065321A1
; GENERAL INFORMATION:
; APPLICANT: Presnell, Scott R.
; APPLICANT: Xu, Wenfeng
; APPLICANT: Kindsvogel, Wayne
; APPLICANT: Chen, Zhi
; APPLICANT: Hughes, Steven D.

; TITLE OF INVENTION: Human Cytokine Receptor
; FILE REFERENCE: 01-12C1
; CURRENT APPLICATION NUMBER: US/10/968,432
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: US 60/279,222
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 10/104,919
; PRIOR FILING DATE: 2002-03-22
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 1050
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (5)...(589)
US-10-968-432-42

Query Match 94.4%; Score 1048.4; DB 9; Length 1050;
Best Local Similarity 99.9%; Pred. No. 2.2e-215;
Matches 1049; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AACAGGCTCTCCTCTCAGTTTATCAACTTTTGACACTTTGTCGATCGGTGATGGCTGTCT 60
Db 1 AACAGGCTCTCCTCTCAGTTTATCAACTTTTGACACTTTGTCGATCGGTGATGGCTGTCT 60
Qy 61 GCAGAAATCTATGAGTTTTTCCCTTATGGGACATTTGGCCGACAGTCCCTGCTTCTCAT 120
Db 61 GCAGAAATCTATGAGTTTTTCCCTTATGGGACATTTGGCCGACAGTCCCTGCTTCTCAT 120
Qy 121 TGCCTGTGGGCCCAGGAGCAAAATGCGTGCCTCAACACCCGGTGAAGCTTGAGGT 180
Db 121 TGCCTGTGGGCCCAGGAGCAAAATGCGTGCCTCAACACCCGGTGAAGCTTGAGGT 180
Qy 181 GTCCAACTTCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAGGAGGCCAG 240
Db 181 GTCCAACTTCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAGGAGGCCAG 240
Qy 241 CTTTGAGATAAACAACACAGACAGTCCGGCTCATCGGGGAGAAACTGTTCCGAGAGTCAG 300
Db 241 CTTTGAGATAAACAACACAGACAGTCCGGCTCATCGGGGAGAAACTGTTCCGAGAGTCAG 300
Qy 301 TGCTAAGGATCAGTGTCTGATGAGAGAGGTGCTCACTTCACTTGAAGACATTCCT 360
Db 301 TGCTAAGGATCAGTGTCTGATGAGAGAGGTGCTCACTTCACTTGAAGACATTCCT 360
Qy 361 GCTCCCCCAGTCACAGAGTTCGGGCCCTACATGACGAGGTGCTGCTTTCCTGACCAA 420
Db 361 GCTCCCCCAGTCACAGAGTTCGGGCCCTACATGACGAGGTGCTGCTTTCCTGACCAA 420
Qy 421 ACTCAGCAATCAGTGTGCTGCTGTCATCATCAGTGTGACGACCAAGAACATCCAGAGAA 480
Db 421 ACTCAGCAATCAGTGTGCTGCTGTCATCATCAGTGTGACGACCAAGAACATCCAGAGAA 480
Qy 481 TGTGAGAGGCTGAAGGAGACAGTGAAGAAAGCTTGGAGAGCGGAGATCAAAAGCGAT 540
Db 481 TGTGAGAGGCTGAAGGAGACAGTGAAGAAAGCTTGGAGAGCGGAGATCAAAAGCGAT 540
Qy 541 CGGGAACTGACCTGCTGTTTATGCTCTGAGAAATGCTTTCCTGAGAGAAAG 600
Db 541 CGGGAACTGACCTGCTGTTTATGCTCTGAGAAATGCTTTCCTGAGAGAAAG 600
Qy 601 CTAGAAAACGAAGAACTGCTCCTTCCCTGCTTCTAAGAAAGAACTAAGATCCCTGAATG 660
Db 601 CTAGAAAACGAAGAACTGCTCCTTCCCTGCTTCTAAGAAAGAACTAAGATCCCTGAATG 660
Qy 661 GACTTTTTTACTAAGGAAAGTGAGAGCTAAAGTCCACCATCAATTAGAAGATTCACAT 720
Db 661 GACTTTTTTACTAAGGAAAGTGAGAGCTAAAGTCCACCATCAATTAGAAGATTCACAT 720
Qy 721 GAAACCTGGCTCAGTGTGAAGAGAAATAGTGTCAAGTGTCCATGACGACGAGGTAGA 780
Db 721 GAAACCTGGCTCAGTGTGAAGAGAAATAGTGTCAAGTGTCCATGACGACGAGGTAGA 780

Db 721 GAAACCTGGCTAGTGAAGAGAAATAGTGTCAAGTGTCTCATGAGACACAGAGGTAGA 780
Qy 781 CTTGATAACCAAGAGATTCATTGACAAATATTTATTTGTCATTGATTAATGCAACAGAAAA 840
Db 781 CTTGATAACCAAGAGATTCATTGACAAATATTTATTTGTCATTGATTAATGCAACAGAAAA 840
Qy 841 AGTATGTAATTTAAAAATTTGTTGAAGAGAGGTACCTCTCATTTCTTAGAAGAAAAAG 900
Db 841 AGTATGTAATTTAAAAATTTGTTGAAGAGAGGTACCTCTCATTTCTTAGAAGAAAAAG 900
Qy 901 CCTATGTAATTCATTTCCATACCAATACCTTTATATATATGTAAGTATTTATTTATTAAGT 960
Db 901 CCTATGTAATTCATTTCCATACCAATACCTTTATATATATGTAAGTATTTATTTATTAAGT 960
Qy 961 ATACATTTATTTATGTCAGTGTATTAATATGGAATTTATTTATAGAAAAATTTATCTGATG 1020
Db 961 ATACATTTATTTATGTCAGTGTATTAATATGGAATTTATTTATAGAAAAATTTATCTGATG 1020
Qy 1021 TTGATATTTGAGTATTAAGCAAAATATATTT 1050
Db 1021 TTGATATTTGAGTATTAAGCAAAATATATTT 1050

RESULT 11

US-11-045-944-40

; Sequence 40, Application US/11045944

; Publication No. US20050124796A1

; GENERAL INFORMATION:

; APPLICANT: Preenell, Scott R.

; APPLICANT: Xu, Wenfeng

; APPLICANT: Kindsvogel, Wayne

; APPLICANT: Chen, Zhi

; TITLE OF INVENTION: Mouse Cytokine Receptor

; FILE REFERENCE: 01-08D1

; CURRENT APPLICATION NUMBER: US/11/045,944

; CURRENT FILING DATE: 2005-01-28

; PRIOR APPLICATION NUMBER: US 60/273,035

; PRIOR FILING DATE: 2001-03-02

; PRIOR APPLICATION NUMBER: US 60/279,232

; PRIOR FILING DATE: 2001-03-27

; PRIOR APPLICATION NUMBER: US 10/090,365

; PRIOR FILING DATE: 2002-03-04

; NUMBER OF SEQ ID NOS: 49

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 40

; LENGTH: 1050

; TYPE: DNA

; ORGANISM: Mus musculus

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (50)...(589)

US-11-045-944-40

Query Match 94.4%; Score 1048.4; DB 10; Length 1050;

Best Local Similarity 99.9%; Pred. No. 2.2e-215;

Matches 1049; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AACAGGCTCTCCTCAGTATTCACATTTTGACACTGTGCGATCGGTGATGCTGTCCT 60
Db 1 AACAGGCTCTCCTCAGTATTCACATTTTGACACTGTGCGATCGGTGATGCTGTCCT 60
Qy 61 GCAGAAATCTATGAGTATTTTCCCTTATGGGACCTTTTGGCCGCCAGCTGCTGCTTCAT 120
Db 61 GCAGAAATCTATGAGTATTTTCCCTTATGGGACCTTTTGGCCGCCAGCTGCTGCTTCAT 120
Qy 121 TGGCCTGTGGCCCGAGAGCAATATGCTGCGCCATCAACACCGGTGCAAGTTGAGGT 180
Db 121 TGGCCTGTGGCCCGAGAGCAATATGCTGCGCCATCAACACCGGTGCAAGTTGAGGT 180
Qy 181 GTCCAACTTCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGCGCAGGAGGCCAG 240
Db 181 GTCCAACTTCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGCGCAGGAGGCCAG 240

Qy 241 CTTTGAGATTAACAAACACAGACGTCGGGCTCATCGGGAGAAACTGTTCCGAGAGTCTAG 300
Db 241 CTTTGAGATTAACAAACACAGACGTCGGGCTCATCGGGAGAAACTGTTCCGAGAGTCTAG 300
Qy 301 TGCCTAAGGATCAGTGTCTGATGATGAGCAGGTGCTCACTTCCACCTCGAAGACATTTCT 360
Db 301 TGCCTAAGGATCAGTGTCTGATGATGAGCAGGTGCTCACTTCCACCTCGAAGACATTTCT 360
Qy 361 GCTCCCCCACTGACAGACAGGTTCGGGCCCTACATGACAGAGGTGCTGCTTTTCTTGACCA 420
Db 361 GCTCCCCCACTGACAGACAGGTTCGGGCCCTACATGACAGAGGTGCTGCTTTTCTTGACCA 420
Qy 421 ACTCAGCAATCAGCTCAGCTCCTGTCATCATGCTGTCAGCAGCAGCAATCCAGAGAA 480
Db 421 ACTCAGCAATCAGCTCAGCTCCTGTCATCATGCTGTCAGCAGCAGCAATCCAGAGAA 480
Qy 481 TGTCAAGAGCTGAAGGAGACAGTGAAGAGCTTTGAGAGAGCGGAGAGATCAAGCGAT 540
Db 481 TGTCAAGAGCTGAAGGAGACAGTGAAGAGCTTTGAGAGAGCGGAGAGATCAAGCGAT 540
Qy 541 CGGGGAACCTGGACCTGCTGTTATGTCCTGAGAAATGCTTGGCTCTGAGCGAGAGAAAG 600
Db 541 CGGGGAACCTGGACCTGCTGTTATGTCCTGAGAAATGCTTGGCTCTGAGCGAGAGAAAG 600
Qy 601 CTAGAAAAAGAGAACTGCTCTTCTGCTTCTTAAAAAGAAACAATAAGATCCCTGAAATG 660
Db 601 CTAGAAAAAGAGAACTGCTCTTCTGCTTCTTAAAAAGAAACAATAAGATCCCTGAAATG 660
Qy 661 GACTTTTTTACTTAAAGGAAGTGAAGAGCTTAAGCTCCACCATCATTTAGAGATTTTCAT 720
Db 661 GACTTTTTTACTTAAAGGAAGTGAAGAGCTTAAGCTCCACCATCATTTAGAGATTTTCAT 720
Qy 721 GAAACCTGGCTCAGTTGAAAGAGAAATAGTGTCAAGTGTGTCATGAGACAGAGGTAGA 780
Db 721 GAAACCTGGCTCAGTTGAAAGAGAAATAGTGTCAAGTGTGTCATGAGACAGAGGTAGA 780
Qy 781 CTTGATAACCAAGAGATTCATTGACAAATATTTATTTGTCATTGATTAATGCAACAGAAA 840
Db 781 CTTGATAACCAAGAGATTCATTGACAAATATTTATTTGTCATTGATTAATGCAACAGAAA 840
Qy 841 AGTATGTAATTTAAAAATTTGTTGAAGAGGTACCTCTCATTTCTTAGAAGAAAAAG 900
Db 841 AGTATGTAATTTAAAAATTTGTTGAAGAGGTACCTCTCATTTCTTAGAAGAAAAAG 900
Qy 901 CCTATGTAATTCATTTCCATACCAATACCTTTATATATATGTAAGTATTTATTTATTAAGT 960
Db 901 CCTATGTAATTCATTTCCATACCAATACCTTTATATATATGTAAGTATTTATTTATTAAGT 960
Qy 961 ATACATTTATTTATGTCAGTGTATTAATATGGAATTTATTTATAGAAAAATTTATCTGATG 1020
Db 961 ATACATTTATTTATGTCAGTGTATTAATATGGAATTTATTTATAGAAAAATTTATCTGATG 1020
Qy 1021 TTGATATTTGAGTATTAAGCAAAATATATTT 1050
Db 1021 TTGATATTTGAGTATTAAGCAAAATATATTT 1050

RESULT 12

US-09-751-797-7

; Sequence 7, Application US/09751797

; Patent No. US20010024652A1

; GENERAL INFORMATION:

; APPLICANT: Dumoutier, Laure

; APPLICANT: Louhed, Jamila

; APPLICANT: Renaud, Jean-Christophe

; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac

; TITLE OF INVENTION: (Tifs) The Proteins Encoded, and Uses Thereof

; FILE REFERENCE: IUD 5543.2

; CURRENT APPLICATION NUMBER: US/09/751,797

; CURRENT FILING DATE: 2000-12-29

; PRIOR APPLICATION NUMBER: 09/419,568

; PRIOR FILING DATE: 1999-10-18

; PRIOR APPLICATION NUMBER: US09/178,973

; PRIOR FILING DATE: 1998-10-26

; NUMBER OF SEQ ID NOS: 29

; SEQ ID NO 7

; LENGTH: 1119

; TYPE: DNA

; ORGANISM: Mus musculus

; FEATURE:

US-09-751-797-7

Query Match 94.3%; Score 1047.8; DB 3; Length 1119;

Best Local Similarity 97.0%; Pred. No. 3e-215;

Matches 1078; Conservative 0; Mismatches 32; Indels 1; Gaps 1;

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Qy 1 AACAGGCTCTCTCTCAGTATCAACTTTTGACACTTTGCGGATCGGTGATGCGTGCCT 60
Db 3 AACAGGCTCTCTCTCAGTATCAACTTTTGACACTTTGCGGATCGGTGATGCGTGCCT 62

Qy 61 GCAGAAATCTATGAGTATTTTCCCTTATGCGGACCTTTGCGCGCCAGCTGCCTTCTCAT 120
Db 63 GCAGAAATCTATGAGTATTTTCCCTTATGCGGACCTTTGCGCGCCAGCTGCCTTCTCAT 122

Qy 121 TGCCTGTGGGCCCAGAGGCAAAATGCGTGCCCATCAACACCCGGTGCAAGCTTGAGGT 180
Db 123 TGCCTGTGGGCCCAGAGGCAAAATGCGTGCCCATCAACACCCGGTGCAAGCTTGAGGT 182

Qy 181 GTCCAACTTCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGGAGGCCAG 240
Db 183 GTCCAACTTCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGGAGGCCAG 242

Qy 241 CTTGTCAGATAACACAGAGCTCCGGTCTCATCGGGAGAAACTGTTCCGAGAGTCCAT 300
Db 243 CTTGTCAGATAACACAGAGCTCCGGTCTCATCGGGAGAAACTGTTCCGAGAGTCCAT 302

Qy 301 TGCTAAGGATCAGTGTCTACCTGATGAAGCAGGTGCTCAACTTCCACCTGGAGACATCT 360
Db 303 TGCTAAGGATCAGTGTCTACCTGATGAAGCAGGTGCTCAACTTCCACCTGGAGACATCT 362

Qy 361 GCTCCCCAGTCACAGAGTTCGGGCCCTCATCGAGGAGTGTGCTTCTTCGACCA 420
Db 363 GCTCCCCAGTCACAGAGTTCGGGCCCTCATCGAGGAGTGTGCTTCTTCGACCA 422

Qy 421 ACTCAGCAATCAGCTCAGCTCCTGTGCATCATCAGTGTGTGACACAGACATCCAGAGAA 480
Db 423 ACTCAGCAATCAGCTCAGCTCCTGTGCATCATCAGTGTGTGACACAGACATCCAGAGAA 482

Qy 481 TGTGAGAGGCTGAAGGAGACAGTGAAAGCTTTGGAGAGCGGAGAGATCAAGCGAT 540
Db 483 TGTGAGAGGCTGAAGGAGACAGTGAAAGCTTTGGAGAGCGGAGAGATCAAGCGAT 542

Qy 541 CGGGAACTGACCTGCTGTTTATGCTCTGAGAAATGCTTGCCTCTGAGCGAGAGAG 600
Db 543 TGGGAACTGACCTGCTGTTTATGCTCTGAGAAATGCTTGCCTCTGAGCGAGAGAG 602

Qy 601 CTAGAAACGAGAACTGCTCTCTGCTGCTTTCTAAGAAAGCAATAGATCCCTGAATG 660
Db 603 CTAGAAACGAGAACTGCTCTCTGCTGCTTTCTAAGAAAGCAATAGATCCCTGAATG 662

Qy 661 GACTTTTTTCTAAGGAAAGTGAGAGCTCAACCGTCCACCATCATATTAGAGATTTCAT 720
Db 663 GACTTTTTTCTAAGGAAAGTGAGAGCTCAACCGTCCACCATCATATTAGAGATTTCAT 722

Qy 721 GAACCTGGCTCAGTTGAAAGAGAAATAGTGTCAAGTTGTCATGTGACCCAGAGGTAGA 780
Db 723 GAACCTGGCTCAGTTGAAAGAGAAATAGTGTCAAGTTGTCATGTGACCCAGAGGTAGA 782

Qy 781 CTTGATACCAACAAAGATTTCATGACAATATTTTATGTCATGATGATCAACAGAGAAA 840
Db 783 CTTGATACCAACAAAGATTTCATGACAATATTTTATGTCATGATGATCAACAGAGAAA 842

Qy 841 AGTATGTAATTTAAAGAAATGTTTGAAGAGGTTTACCTCTCATTTCTTCTAGAGAGAA 900
Db 843 ATAATGTAATTTAAAGAAATGTTTGAAGAGGTTTACCTCTCATTTCTTCTAGAGAGAA 902
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RESULT 13

US-10-627-273-7

; Sequence 7, Application US/10627273

; Publication No. US20040110189A1

; GENERAL INFORMATION:

; APPLICANT: Dumoutier, Laure

; APPLICANT: Louhed, Jamila

; APPLICANT: Renauld, Jean-Christophe

; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac

; TITLE OF INVENTION: (TIFF) The Proteins Encoded, and Uses Thereof

; FILE REFERENCE: LUD 5543.2

; CURRENT APPLICATION NUMBER: US/10/627,273

; CURRENT FILING DATE: 2003-07-25

; PRIOR APPLICATION NUMBER: US/09/751,797

; PRIOR FILING DATE: 2000-12-29

; PRIOR APPLICATION NUMBER: 09/419,568

; PRIOR FILING DATE: 1999-10-18

; PRIOR APPLICATION NUMBER: US09/178,973

; PRIOR FILING DATE: 1998-10-26

; NUMBER OF SEQ ID NOS: 29

; SEQ ID NO 7

; LENGTH: 1119

; TYPE: DNA

; ORGANISM: Mus musculus

; FEATURE:

US-10-627-273-7

Query Match 94.3%; Score 1047.8; DB 7; Length 1119;

Best Local Similarity 97.0%; Pred. No. 3e-215;

Matches 1078; Conservative 0; Mismatches 32; Indels 1; Gaps 1;

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Qy 1 AACAGGCTCTCTCTCAGTATCAACTTTTGACACTTTGTGCGATCGGTGATGGCTGCTCT 60
Db 3 AACAGGCTCTCTCTCAGTATCAACTTTTGACACTTTGTGCGATCTCTGATGGCTGCTCT 62

Qy 61 GCAGAAATCTATGAGTATTTTCCCTTATGCGGACCTTTGCGCGCCAGCTGCCTTCTCAT 120
Db 63 GCAGAAATCTATGAGTATTTTCCCTTATGCGGACCTTTGCGCGCCAGCTGCCTTCTCAT 122

Qy 121 TGCCTGTGGGCCCAGAGGCAAAATGCGTCCCATCAACACCCGGTGCAAGCTTGAGGT 180
Db 123 TGCCTGTGGGCCCAGAGGCAAAATGCGTCCCATCAACACCCGGTGCAAGCTTGAGGT 182

Qy 181 GTCCAACTTCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGGAGGCCAG 240
Db 183 GTCCAACTTCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGGAGGCCAG 242

Qy 241 CTTGTCAGATAACACAGAGCTCCGGTCTCATCGGGAGAAACTGTTCCGAGAGTCCAT 300
Db 243 CTTGTCAGATAACACAGAGCTCCGGTCTCATCGGGAGAAACTGTTCCGAGAGTCCAT 302

Qy 301 TGCTAAGGATCAGTGTCTACCTGATGAAGCAGGTGCTCAACTTCCACCTGGAGACATCT 360
Db 303 TGCTAAGGATCAGTGTCTACCTGATGAAGCAGGTGCTCAACTTCCACCTGGAGACATCT 362

Qy 361 GCTCCCCAGTCACAGAGTTCGGGCCCTCATCGAGGAGTGTGCTTCTTCGACCA 420
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; FILE REFERENCE: 02-04
 ; CURRENT APPLICATION NUMBER: US/10/395,741B
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 60/366,842
 ; PRIOR FILING DATE: 2002-03-22
 ; NUMBER OF SEQ ID NOS: 67
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 37
 ; LENGTH: 778
 ; TYPE: DNA
 ; ORGANISM: mus musculus
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (47)...(583)
 US-10-395-741B-37

Query Match 68.2%; Score 757.2; DB 7; Length 778;
 Best Local Similarity 98.3%; Pred. No. 9.5e-153;
 Matches 765; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy	4	AGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCTCGCA	63
Db	1	AGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCTCGCA	60
Qy	64	GAAATCTATGAGTTTTCCTTTATGGGACTTTTGGCGCCGAGCTGCCCTTCTCATTTGC	123
Db	61	GAAATCTATGAGTTTTCCTTTATGGGACTTTTGGCGCCGAGCTGCCCTTCTCATTTGC	120
Qy	124	CCTGTGGGCCCAGGAGGCAATGCGTCCCATCAACCCGGTGCAAGCTTGAGGTGTC	183
Db	121	CCTGTGGGCCCAGGAGGCAATGCGTCCCATCAACCCGGTGCAAGCTTGAGGTGTC	180
Qy	184	CAACTTCAGAGCGCGTACATCGTCAACCGCACCTTTATGTGCGCAAGGAGCCAGCCT	243
Db	181	CAACTTCAGAGCGCGTACATCGTCAACCGCACCTTTATGTGCGCAAGGAGCCAGCCT	240
Qy	244	TGCAGATAACAACACAGAGCTCCGCTCATCGGGGAGAACTGTTCGAGAGTCAGTGC	303
Db	241	TGCAGATAACAACACAGAGTCCGCTCATCGGGGAGAACTGTTCGAGAGTCAATGC	300
Qy	304	TAAGGATCAGTGTACCTGTATGAAGCAGGTGCTCAACTTTCACCTTGAAGACATTTCTGCT	363
Db	301	TAAGGATCAGTGTACCTGTATGAAGCAGGTGCTCAACTTTCACCTTGAAGACATTTCTGCT	360
Qy	364	CCCCCAGTCAGACAGGTTCCGGCCCTACATGACAGAGGTGTGCTTTCCTGACCAAACT	423
Db	361	CCCCCAGTCAGACAGGTTCCAGCCCTACATGACAGAGGTGTGCTTTCCTGACCAAACT	420
Qy	424	CAGCAATCAGCTCAGCTCCTGTACATCAGTGTGACGACCAGAACATCCAGAAAGATGT	483
Db	421	CAGCAATCAGCTCAGCTCCTGTACATCAGGCGGTGACGACCAGAACATCCAGAAAGATGT	480
Qy	484	CAGAAGGCTGAAGGAGACAGTGAAAGCTTTGGAGAGAGCGGAGAGATCAAGCGATCGG	543
Db	481	CAGAAGGCTGAAGGAGACAGTGAAAGCTTTGGAGAGAGTGGAGAGATCAAGCGATGG	540
Qy	544	GGAAGTGAACCTGTCTTTTATGTCTTGAGAAATGCTTGGCTCTGAGCGAAGAGCTA	603
Db	541	GGAAGTGAACCTGTCTTTTATGTCTTGAGAAATGCTTGGCTCTGAGCGAAGAGCTA	600
Qy	604	GAAACGAAAGAACTGCTCTTCTCGCCTTTCTAAAGAAACAATAAGATCCCTGAATGGAC	663
Db	601	GAAACGAAAGAACTGCTCTTCTCGCCTTTCTAAAGAAACAATAAGATCCCTGAATGGAC	660
Qy	664	TTTTTTTAAAGGAAAGTGAAGAGCTAACGTCACCATCATTTAGAGATTTTCATGAA	723
Db	661	TTTTTTTAAAGGAAAGTGAAGAGCTAACGTCACCATCATTTAGAGATTTTCATGAA	720
Qy	724	ACCTGGCTCAGTTGAAAGAGAAAAATAGTGTCAAGTTGTTCATGAGACAGAGGTAGAC	781
Db	721	ACCTGGCTCAGTTGAAAGAGAAAAATAGTGTCAAGTTGTTCATGAGACAGAGGTAGAC	778

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 Job time : 558.632 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 20, 2005, 13:17:12 ; Search time 77.4651 Seconds
(without alignments)
7442.822 Million cell updates/sec

Title: US-09-751-797-9

Perfect score: 1111

Sequence: 1 aacaggctctctcagtt.....aaacacatgaatcataaa 1111

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4168288 seqs, 259477437 residues

Total number of hits satisfying chosen parameters: 8336576

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications NA New.*

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2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
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5: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
6: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
7: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*
8: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq2.*
9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq3.*
10: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	1111	100.0	1111	7	US-11-177-987-9
2	1047.8	94.3	1119	7	US-11-177-987-7
3	602.4	54.2	5935	7	US-11-177-987-42
4	555.2	50.0	7445	7	US-11-177-987-8
5	525.6	47.3	1152	7	US-11-102-240-153
6	407.6	36.7	630	7	US-11-177-987-25
7	217.2	19.5	418	7	US-11-177-987-18
8	127.6	11.5	4797	7	US-11-177-987-26
9	61	5.5	161874	7	US-11-121-086-75
10	57.6	5.2	151169	7	US-11-121-086-38
11	55.6	5.0	171486	7	US-11-121-086-105
12	55.6	5.0	394468	6	US-10-995-561-13473
13	55.2	5.0	26772	6	US-10-995-561-13313
14	55.2	5.0	54946	6	US-10-995-561-13479
15	54.6	4.9	171486	7	US-11-121-086-105
16	54.4	4.9	394468	6	US-10-995-561-13473
17	53.2	4.8	171602	7	US-11-121-086-25
18	53	4.8	181172	7	US-11-121-086-41
19	52.8	4.8	105550	6	US-10-995-561-13235
20	51.8	4.7	173602	7	US-11-121-086-25
21	51.6	4.6	146656	7	US-11-121-086-68
22	51.6	4.6	151169	7	US-11-121-086-38
23	51	4.6	20317	6	US-10-995-561-13460

C	24	50.2	4.5	147700	6	US-10-857-780-3	Sequence 3, Appli
	25	50	4.5	119036	6	US-10-995-561-13314	Sequence 13314, A
C	26	49.8	4.5	7720	6	US-10-515-481-10	Sequence 10, Appl
	27	49.6	4.5	161874	7	US-11-121-086-75	Sequence 75, Appl
	28	49.4	4.4	12872	6	US-10-995-561-13511	Sequence 13511, A
C	29	49.2	4.4	201990	6	US-10-995-561-13303	Sequence 13303, A
	30	49.2	4.4	398287	6	US-10-995-561-13396	Sequence 13396, A
C	31	49	4.4	175416	7	US-11-121-086-43	Sequence 43, Appl
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	33	48.6	4.4	47444	6	US-10-995-561-13354	Sequence 13354, A
C	34	48.6	4.4	105550	6	US-10-995-561-13235	Sequence 13235, A
	35	48.4	4.4	1483	6	US-10-750-185-39052	Sequence 39052, A
	36	48.4	4.4	49979	6	US-10-995-561-13443	Sequence 13443, A
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	38	48.2	4.3	134499	7	US-11-117-187-192	Sequence 192, App
	39	48.2	4.3	182314	7	US-11-112-908-45	Sequence 45, Appl
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	41	48.2	4.3	201990	6	US-10-995-561-13303	Sequence 13303, A
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	43	48	4.3	197781	7	US-11-112-908-34	Sequence 34, Appl
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	45	47.6	4.3	7720	6	US-10-515-481-10	Sequence 10, Appl

ALIGNMENTS

RESULT 1

US-11-177-987-9
; Sequence 9, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumontier, Laure
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fact
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-11-177-987-9

Query Match	100.0%;	Score 1111;	DB 7;	Length 1111;
Best Local Similarity	100.0%;	Pred. No. 1e-250;		
Matches 1111;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	AACAGGCTCTCTCTCAGTATCAACTTTGACACTTGTGCGATCGGTGATGCTGCTCT	60	
Db	1	AACAGGCTCTCTCTCAGTATCAACTTTGACACTTGTGCGATCGGTGATGCTGCTCT	60	
QY	61	GCAGAACTATGAGTATTTTCCTTATGGGACTTTGGCCGCGAGTGGCTGCTTCAT	120	
Db	61	GCAGAACTATGAGTATTTTCCTTATGGGACTTTGGCCGCGAGTGGCTGCTTCAT	120	
QY	121	TGCGCTGTGGCCGAGGAGCAATCGCTTGCCCATCAACCCGTCGCAAGTTGAGGT	180	
Db	121	TGCGCTGTGGCCGAGGAGCAATCGCTTGCCCATCAACCCGTCGCAAGTTGAGGT	180	
QY	181	GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAAGAGGCCAG	240	

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Db 181 GTCCAACTTCAGCAGCGGTACATCGTCAACCGCACCTTTATGTCGCGCAAGGAGCCAG 240
Qy 241 CCTTGCAGATAACACACAGAGCGTCCGGCTCATCGGGGAGAACTGTTCGAGAGTCAG 300
Db 241 CCTTGCAGATAACACACAGAGCGTCCGGCTCATCGGGGAGAACTGTTCGAGAGTCAG 300
Qy 301 TGTCTAAGGATCAGTGTCTACCTGATGAAGCAGGTGCTCAACTTTCACCCCTGGAAGACATTC 360
Db 301 TGTCTAAGGATCAGTGTCTACCTGATGAAGCAGGTGCTCAACTTTCACCCCTGGAAGACATTC 360
Qy 361 GCTCCCCAGTCAGACAGGTTCCGGCCCTACATGACGAGAGGTGTGCTTCTCTGACCAA 420
Db 361 GCTCCCCAGTCAGACAGGTTCCGGCCCTACATGACGAGAGGTGTGCTTCTCTGACCAA 420
Qy 421 ACTCAGCAATCAGCTCAGCTCCCTGTCATCATCAGTGTGACGACGAGCAACATCCAGAGAA 480
Db 421 ACTCAGCAATCAGCTCAGCTCCCTGTCATCATCAGTGTGACGACGAGCAACATCCAGAGAA 480
Qy 481 TGTCTAAGGCTGAAGGAGACAGTGAAAGAGCTTTGGAGAGCGGAGAGATCAAGCGAT 540
Db 481 TGTCTAAGGCTGAAGGAGACAGTGAAAGAGCTTTGGAGAGCGGAGAGATCAAGCGAT 540
Qy 541 CGGGGAACAGCTGCTGCTGTTTATGCTCTGAGAAATGCTTGCCTCTGAGCGAGAGAG 600
Db 541 CGGGGAACAGCTGCTGCTGTTTATGCTCTGAGAAATGCTTGCCTCTGAGCGAGAGAG 600
Qy 601 CTAGAAACGAGAACTGCTCTCTCTGCTTCTTAAAGAGCAATTAAGATCCCTGATG 660
Db 601 CTAGAAACGAGAACTGCTCTCTCTGCTTCTTAAAGAGCAATTAAGATCCCTGATG 660
Qy 720 GACTTTTTTACTAAGGAAAGTGAGAGCTAACTGCTCCACCATCAATTAGAGATTTTCAT 720
Db 720 GACTTTTTTACTAAGGAAAGTGAGAGCTAACTGCTCCACCATCAATTAGAGATTTTCAT 720
Qy 780 GAAACCTGGCTCAGTTGAAAGAGAAATAGTGTCAAGTTGTCCATGAGACGAGAGGTAGA 780
Db 780 GAAACCTGGCTCAGTTGAAAGAGAAATAGTGTCAAGTTGTCCATGAGACGAGAGGTAGA 780
Qy 840 CTTGATACCAACAGAGATTCATGACATATTTTATGTCATGATGATGATGATGATGATGAT 840
Db 840 CTTGATACCAACAGAGATTCATGACATATTTTATGTCATGATGATGATGATGATGATGAT 840
Qy 900 AGTATGATCTTTAAAAAATTTGTTGAAAGGAGGTACCTCTCATCTCTAGAGAGAAAG 900
Db 900 AGTATGATCTTTAAAAAATTTGTTGAAAGGAGGTACCTCTCATCTCTAGAGAGAAAG 900
Qy 960 CCTATGTAACCTTCATTAACCAATCTTATATATATATATATATATATATATATATATAT 960
Db 960 CCTATGTAACCTTCATTAACCAATCTTATATATATATATATATATATATATATATATAT 960
Qy 1020 ATACATTTTATTTATGTCAGTTTATTAATATGGAATTTATTTATAGAAAAATTTCTGATG 1020
Db 1020 ATACATTTTATTTATGTCAGTTTATTAATATGGAATTTATTTATAGAAAAATTTCTGATG 1020
Qy 1080 TTGATATTTAGTATAAAGCAAAATAATTTATGATATAATACTATAGAAAAAAGATATCT 1080
Db 1080 TTGATATTTAGTATAAAGCAAAATAATTTATGATATAATACTATAGAAAAAAGATATCT 1080
Qy 1081 TAGGCTTTAATAACACATGAATATCATAAA 1111
Db 1081 TAGGCTTTAATAACACATGAATATCATAAA 1111
```

RESULT 2
us-11-177-987-7
; Sequence 7, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664

```
; CURRENT APPLICATION NUMBER: US/11/177,987  
; CURRENT FILING DATE: 2005-07-07  
; PRIOR FILING DATE: US/09/626,617  
; PRIOR FILING DATE: 2000-07-27  
; PRIOR APPLICATION NUMBER: US09/419,568  
; PRIOR FILING DATE: 1999-10-18  
; PRIOR APPLICATION NUMBER: US09/354,243  
; PRIOR FILING DATE: 1999-07-16  
; PRIOR APPLICATION NUMBER: US09/178,973  
; PRIOR FILING DATE: 1998-10-26  
; NUMBER OF SEQ ID NOS: 43  
; SEQ ID NO 7  
; LENGTH: 1119  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
us-11-177-987-7  
  
Query Match 94.3%; Score 1047.8; DB 7; Length 1119;  
Best Local Similarity 97.0%; Pred. No. 6.4e-236;  
Matches 1078; Conservative 0; Mismatches 32; Indels 1; Gaps 1;  
  
Qy 1 AACAGGCTCTCTCTCAGTTTATCAACTTTTGACACTTTGTCGGATCGGTGATGCTGTCT 60  
Db 3 AACAGGCTCTCTCTCAGTTTATCAACTTTTGACACTTTGTCGGATCTCTGATGGCTGTCT 62  
Qy 61 GCAGAAATCTATGAGTTTTTCCCTTATGGGAGCTTTTGGCCGCGCAGCTGCTGTCTCAT 120  
Db 63 GCAGAAATCTATGAGTTTTTCCCTTATGGGAGCTTTTGGCCGCGCAGCTGCTGTCTCAT 122  
Qy 121 TGCCCTGTGGGCCAGGAGCAAAATGCGTGCCTCAACACCCGGTGCAAGCTTGAGGT 180  
Db 123 TGCCCTGTGGGCCAGGAGCAAAATGCGTGCCTCAACACCCGGTGCAAGCTTGAGGT 182  
Qy 181 GTCCAACTTCAGAGCCGTACATCGTCAACCCGACCTTTATGCTGCGCAAGGAGCCAG 240  
Db 183 GTCCAACTTCAGAGCCGTACATCGTCAACCCGACCTTTATGCTGCGCAAGGAGCCAG 242  
Qy 241 CCTTGCAATGATAACACACAGAGCTCCGGCTCATCGGGGAGAACTGTTCGAGAGTCAG 300  
Db 243 CCTTGCAATGATAACACACAGAGCTCCGGCTCATCGGGGAGAACTGTTCGAGAGTCAG 302  
Qy 301 TGCTAAGGATCAGTGTCTACCTGATGAAGCAGGTGCTCAACTTCACTTCAAGACGTTCT 360  
Db 303 TGCTAAGGATCAGTGTCTACCTGATGAAGCAGGTGCTCAACTTCACTTCAAGACGTTCT 362  
Qy 361 GCTCCCCAGTCAGACAGGTTCCGGCCCTACATGACGAGAGGTGTGCTTCTCTGACCAA 420  
Db 363 GCTCCCCAGTCAGACAGGTTCCAGCCCTACATGACGAGGTGTGCTTCTCTGACCAA 422  
Qy 421 ACTCAGCAATCAGCTCAGCTCCCTGTCATCATCAGTGTGACGACGAGCAACATCCAGAGAA 480  
Db 423 ACTCAGCAATCAGCTCAGCTCCCTGTCATCATCAGCGGTGACGACGAGCAACATCCAGAGAA 482  
Qy 481 TGTCTAAGGCTGAAGGAGACAGTGAAAGAGCTTTGGAGAGCGGAGAGATCAAGCGAT 540  
Db 483 TGTCTAAGGCTGAAGGAGACAGTGAAAGAGCTTTGGAGAGCGGAGAGATCAAGCGAT 542  
Qy 541 CGGGGAACAGCTGCTGCTGTTTATGCTCTGAGAAATGCTTCTGAGCGAGAGAGAG 600  
Db 543 TGGGGAACAGCTGACCTGCTGTTTATGCTCTGAGAAATGCTTCTGAGCGAGAGAGAG 602  
Qy 601 CTAGAAACGAGAACTGCTCTCTCTGCTTCTTAAAAAGAACTAAGATCCCTGATG 660  
Db 603 CTAGAAACGAGAACTGCTCTCTCTGCTTCTTAAAAAGAACTAAGATCCCTGATG 662  
Qy 661 GACTTTTTTACTAAGGAAAGTGAGAGCTAACTGCTCCACCATCAATTAGAGATTTTCAT 720  
Db 663 GACTTTTTTACTAAGGAAAGTGAGAGCTAACTGCTCCATCATCATTTAGAGATTTTCAT 722  
Qy 721 GAAACCTGGCTCAGTTGAAAGAGAAATAGTGTCAAGTTGTCCATGAGACGAGGTAGA 780  
Db 723 GAAACCTGGCTCAGTTGAAAGAGAAATAGTGTCAAGTTGTCCATGAGACGAGGTAGA 782
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QY 781 CTTGATAACCAAGATTCAATTGACAAATATTTTATTTGTCATTTGATTAATGCAACAGAAAA 840
DB 783 CTTGATAACCAAGATTCAATTGACAAATATTTTATTTGTCATTTGATTAATGCAACAGAAAA 842
QY 841 AGTATGTAATTTTAAAAATTTGTTGAAAGAGGTTACCTCTCAATTCCTCTAGAGAAAAG 900
DB 843 ATAATGTAATTTTAAAAATTTGTTGAAAGAGGTTACCTCTCAATTCCTCTAGAGAAAAG 902
QY 901 CCTATGTAATTTTCCATAACCAATCTTTTATATATGTAAGTTTATTTATTAAGT 960
DB 903 CTTATGTAATTTTCCATAACCAATCTTTTATATGTAAGTTTATTTATTAAGT 962
QY 961 ATACATTTTATTTATGTCAGTTTATTAATATGGAATTTATTTATAGAAAAATTTATCTGATG 1020
DB 963 ATACATTTTATTTATGTCAGTTTATTAATATGGAATTTATTTATAGAAAAATTTATCTGCTA 1022
QY 1021 TTGATATTTGAGTATAAGCAATATATTTATGATAATTAACATATAGAAACAAGATATCT 1080
DB 1023 TTGATATTTT-AGTATAAGGCAATATATTTATGCAATTAATCTATGCAACAAGATATCT 1081
QY 1081 TAGGCTTTTATAAACAACATATATCATAAA 1111
DB 1082 TAGGCTTTTATAAACAACATGATATCATAAA 1112

RESULT 3
US-11-177-987-42
; Sequence 42, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; PRIOR FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 42
; LENGTH: 5935
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-11-177-987-42

Query Match 54.2%; Score 602.4; DB 7; Length 5935;
Best Local Similarity 99.8%; Pred. No. 2.5e-131;
Matches 603; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 508 AAAGCTTGGAGAGCGGAGAGATCAAGCGATCGGGAACTGGACCTGCTGTTTATGTC 567
DB 5221 ATAGCTTGGAGAGCGGAGAGATCAAGCGATCGGGAACTGGACCTGCTGTTTATGTC 5280
QY 568 TCTGAGAAATGCTTGGCTCTGAGCGAGAAGCTAGAAAACGAAGAACTGCTTCTTCCCT 627
DB 5281 TCTGAGAAATGCTTGGCTCTGAGCGAGAAGCTAGAAAACGAAGAACTGCTTCTTCCCT 5340
QY 628 GCCTTCTTAAAGAAACAATAAGATCCCTGAATGGAATCTTTTACTAAAGGAAAGTGAGAA 687
DB 5341 GCCTTCTTAAAGAAACAATAAGATCCCTGAATGGAATCTTTTACTAAAGGAAAGTGAGAA 5400
QY 688 GCTAACGTCACCATATTAGAGATTTCAATGAAACCTGGCTCAGTTGAAAGAGAAAA 747
DB 5401 GCTAACGTCACCATATTAGAGATTTTCAATGAAACCTGGCTCAGTTGAAAGAGAAAA 5460
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QY 748 TAGTGTCAAAGTTGTCCATGAGACCGAGGTAGACTTTGATAACCAACAAAGATTCAATTGACA 807
DB 5461 TAGTGTCAAAGTTGTCCATGAGACCGAGGTAGACTTTGATAACCAACAAAGATTCAATTGACA 5520
QY 808 ATATTTTATTTGTCATTTGATTAATGCAACAGAAAAAGTATGCTTTTAAAAAATTTGTTGAA 867
DB 5521 ATATTTTATTTGTCATTTGATTAATGCAACAGAAAAAGTATGCTTTTAAAAAATTTGTTGAA 5580
QY 868 AGGAGGTTTACCTCTCAATTCCTCTAGAGAAAAAGCCCTATGTAACCTTCATTTCCCATAAACAA 927
DB 5581 AGGAGGTTTACCTCTCAATTCCTCTAGAGAAAAAGCCCTATGTAACCTTCATTTCCCATAAACAA 5640
QY 928 TACTTTTATATATCTAAGTTTATTTATTAATTAAGTATACATTTTATTTATGTCAGTTTATTA 987
DB 5641 TACTTTTATATATCTAAGTTTATTTTATTAATTAAGTATACATTTTATTTATGTCAGTTTATTA 5700
QY 988 ATATGGAATTTATTTATAGAAAAATTTATCTGATGTTGATATTTTATTAAGCAATATTAAT 1047
DB 5701 ATATGGAATTTATTTATAGAAAAATTTATCTGATGTTGATATTTTATTAAGCAATATTAAT 5760
QY 1048 ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTTATAAAACACATGAATATCA 1107
DB 5761 ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTTATAAAACACATGAATATCA 5820
QY 1108 TAAA 1111
DB 5821 TAAA 5824

RESULT 4
US-11-177-987-8
; Sequence 8, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 8
; LENGTH: 7445
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-11-177-987-8

Query Match 50.0%; Score 555.2; DB 7; Length 7445;
Best Local Similarity 96.0%; Pred. No. 3.1e-120;
Matches 580; Conservative 0; Mismatches 23; Indels 1; Gaps 1;

QY 508 AAAGCTTGGAGAGCGGAGAGATCAAGCGATCGGGAACTGGACCTGCTGTTTATGTC 567
DB 6535 ATAGCTTGGAGAGCGGAGAGATCAAGCGGATTTGGGAACTGGACCTGCTGTTTATGTC 6594
QY 568 TCTGAGAAATGCTTGGCTCTGAGCGAGAAGAGCTAGAAAACGAAGAACTGCTTCTTCCCT 627
DB 6595 TCTGAGAAATGCTTGGCTCTGAGCGAGAAGAGCTAGAAAACGAAGAACTGCTTCTTCCCT 6654
QY 628 GCCTTCTTAAAGAAACAATAAGATCCCTGAATGGAATCTTTTACTAAAGGAAAGTGAGAA 687
DB 6655 GCCTTCTTAAAGAAACAATAAGATCCCTGAATGGAATCTTTTACTAAAGGAAAGTGAGAA 6714
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US-11-177-987-25
; Sequence 25, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 25
; LENGTH: 690
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-11-177-987-25

Query Match 36.7%; Score 407.6; DB 7; Length 690;
Best Local Similarity 76.0%; Pred. No. 3.5e-86;
Matches 503; Conservative 0; Mismatches 159; Indels 0; Gaps 0;

QY 7 CTCCTCTCAGTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCTCTGCAGAA 66
DB 29 CTCCTCCCGAGTCACAGTTGCTCGAGTTAGAAATGCTGCAATGSCCGCCCTGCAGAA 88
QY 67 ATCTATGAGTTTTCCCTTATGGGACTTTGGCGCCAGCTGCTGCTTCTCATTTGCCCT 126
DB 89 ATCTGTGAGCTTTCTCTTATGGGACCTTGGCCACCAGCTGCTCTCTTCTTGGCCCT 148
QY 127 GTGGGCCCGAGGCAAAATGCGTCCCATCAACCCCGTCAAGCTTCAGGTGTCCAA 186
DB 149 CTTGGTACAGGAGGACAGCTGGGCCCATCAGCTCCCATGAGGCTTCAAGTCCAA 208
QY 187 CTTCCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAAAGGAGCGACCTTGC 246
DB 209 CTTCCAGCAGCGCTATATACCAACCGCACCTTTCATGCTGCTTAAGGAGCTAGCTTGC 268
QY 247 AGATAACAACACAGACGCTCCGGCTCATCGGGGAGAACTGTTCCGAGGAGTCAAGTCTAA 306
DB 269 TGATAACAACACAGACGCTTCTCTCATTTGGGGAGAACTGTTCCACGAGTCAAGTATGAG 328
QY 307 GGATCAGTGTACTGTATGAGCAGGTCCTCACTTCCACCTCGAGACATTTCTGCTCCC 366
DB 329 TGAGCGCTGTCTATCTGATGAGCAGGTCGTAACCTTCCACCTTGAAGAAGTGTCTTCCC 388
QY 367 CCAGTCAGACAGGTTCCGGGCTTACATGACGAGGTTGGTGCCTTTCTCTGACCAAACTCAG 426
DB 389 TCAATCTGATAGTTTCAGGCTTATATGACGAGGTTGGTGCCTTCTTGGCCAGGCTCAG 448
QY 427 CAATCAGCTCAGTCTGTGTCATCAGTGTGACGACCAAACTCCAGAAAGAAATGTTCAG 486
DB 449 CAACAGGCTAAGCACATGTCTATTTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCA 508
QY 487 AAGCTCAAGGACAGTGAAGAAAGCTTGGAGAGCGGAGAGATCAAGCGATCCGGGA 546
DB 509 AAAGCTGAAGGACACATGTGAAGAAAGCTTGGAGAGGTGGAGAGATCAAGCAATTTGAGA 568
QY 547 ACTGACCTGCTGTTTATGCTCTGAGAAATGCTTGGTCTGAGCGGAGAAAGAGCTAGAA 606
DB 569 ACTGGAATGCTGTTTATGCTCTGAGAAATGCTGCAATTTGACGAGCAAGAGCTGAAA 628
QY 607 AACGAGAACTGCTCTCTTCTGCTTCTTAAAGAAACAATAAGATCCCTGAATGGACTTTT 666

DB 629 AATGAATAACTAACCCCTTTCTCCTAGAAATAACAATTAGATGCCCCCAAGCGATTT 688
QY 667 TT 668
DB 689 TT 690
RESULT 7
US-11-177-987-18
; Sequence 18, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 18
; LENGTH: 418
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-11-177-987-18

Query Match 19.5%; Score 217.2; DB 7; Length 418;
Best Local Similarity 73.2%; Pred. No. 9.9e-42;
Matches 293; Conservative 0; Mismatches 103; Indels 4; Gaps 1;

QY 352 AGACATTTCTGCTCCCGGCTCAGACAGGTTCCGGCCCTACATCAGGAGTGTGTCCTTT 411
DB 1 AGAAGTGTGTTCCCTCAATCTGATAGTTCCAGCCCTTATATCAGGAGTGTGTCCTTT 60
QY 412 CTTGACCAAACTCAGCAATCAGCTCAGCTCTCTGTCATCAGTGGTGAACGACGAGACAT 471
DB 61 CTTGGCCAGGCTCAGCAACAGGCTAAGCACATGTCATATTGAAGGTGATGACCTGCATAT 120
QY 472 CAGAAAGATGTGAGAGGCTGAAGGACAGTGAAGAAAGCTTGGAGAGCGGAGAGAT 531
DB 121 CCAGAGGAATGTGCAAAAGCTGAAGGACACAGTGAAGAAAGCTTGGAGAGTGGAGAGAT 180
QY 532 CAAAGCGATCGGGGAACCTGACCTGCTGTTATGCTCTGAGAAATGCTTGCCTGTCGAGC 591
DB 181 CAAAGCAATTTGGAGAACTGGAATTTGCTGTTTATGCTCTGAGAAATGCTGCAATTTGACC 240
QY 592 GAGAAAGCTAGAAACGAAACCTGCTCTTCTGCTCCCTTTCTAAAGAAACAATAAGAT 651
DB 241 AGAGCAAGCTGAATAATGAATAACTAACCCCTTTCCCTGTAGAAATAACAATTAGAT 300
QY 652 CCTGTAATGAGCTTTTTTTT-----ACTAAAGAAAGTGAAGAGCTAACGTCACCATCATTA 707
DB 301 GCCCCAAAGCGATTTTTTTTTTAAACCAAAAGGAAGATGGGAAGCCAAACTCCATCATGATGG 360
QY 708 GAGATTTTCATGAACCTGGCTCAGTTGAAGAGAGAAA 747
DB 361 GTGGATTCCAAAATGAACCCCTCGCTGTTAGTTACAAAGAAA 400

RESULT 8
US-11-177-987-26
; Sequence 26, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:

; APPLICANT: Dumoutier, Laure
 ; APPLICANT: Renaud, Jean-Christophe
 ; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
 ; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
 ; FILE REFERENCE: LUD 5664
 ; CURRENT APPLICATION NUMBER: US/11/177,987
 ; PRIOR FILING DATE: 2005-07-07
 ; PRIOR APPLICATION NUMBER: US/09/626,617
 ; PRIOR FILING DATE: 2000-07-27
 ; PRIOR APPLICATION NUMBER: US09/419,568
 ; PRIOR FILING DATE: 1999-10-18
 ; PRIOR APPLICATION NUMBER: US09/354,243
 ; PRIOR FILING DATE: 1999-07-16
 ; PRIOR APPLICATION NUMBER: US09/178,973
 ; PRIOR FILING DATE: 1998-10-26
 ; NUMBER OF SEQ ID NOS: 43
 ; SEQ ID NO 26
 ; LENGTH: 4797
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 US-11-177-987-26

Query Match 11.5%; Score 127.6; DB 7; Length 4797;
 Best Local Similarity 72.2%; Pred. No. 3e-20;
 Matches 166; Conservative 0; Mismatches 64; Indels 0; Gaps 0;
 QY 7 CTCCTCTCAGTTATCACTTTTGACACTTGTGCGATCGGTGATGGCTGCTCGCAGAA 66
 DB 29 CTCCTTCCAGTCACCACTTGTCTGAGTTAGAAATGCTGCAATGGCGCCCTGCGAGAA 88
 QY 67 ATCTATGAGTTTTCCTTATGGGACTTTGGCCGCGAGCTGCTGCTCTCTCATTTGCCCT 126
 DB 89 ATCTGTGAGCTTCTTCTTATGGGACCTTGGCCAGCAGCTGCTCTCTCTTCTTGGCCCT 148
 QY 127 GTGGGCCAGGAGCAAAATGGCTGCCCATCAACACCCGGTGCAAGCTTGAGGTGTCCAA 186
 DB 149 CTTCGTACAGGAGGAGCAGCTGGCCCATCAGCTCCCATGCTGACAGTCCAA 208
 QY 187 CTTCAGAGCGGTACATGCTCAACCGGACCTTTATGCTGGCCAGGAGG 236
 DB 209 CTTCAGAGCGGTATATACCAACCGGACCTTATGCTGGCTAAGGAGG 258

RESULT 9
 US-11-121-086-75/c
 ; Sequence 75, Application US/11121086
 ; Publication No. US20050266459A1
 ; GENERAL INFORMATION:
 ; APPLICANT: POULSEN, TIM S.
 ; APPLICANT: NIELSEN, KIRSTEN V.
 ; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
 ; FILE REFERENCE: 09138.6000-00000
 ; CURRENT APPLICATION NUMBER: US/11/121,086
 ; CURRENT FILING DATE: 2005-05-04
 ; PRIOR APPLICATION NUMBER: 60/567,570
 ; PRIOR FILING DATE: 2004-05-04
 ; NUMBER OF SEQ ID NOS: 107
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 75
 ; LENGTH: 161874
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-11-121-086-75
 Query Match 5.5%; Score 61; DB 7; Length 161874;
 Best Local Similarity 48.4%; Pred. No. 0.00064;
 Matches 169; Conservative 0; Mismatches 180; Indels 0; Gaps 0;
 QY 763 CATGAGACGAGGTAGCTTGTGATTAACCAAGATTCATTGACAAATTTTATGTCAT 822
 DB 125722 CTTAAGCATATATTTTAAACATTAAGAAATATATATTTTAAACACATATTAATAATAGA 125663

QY 823 TGATAATGCAACAGAAAAAGTATGTACTTTTAAAAAATTTGTTGAAAGGAGTTACCTCTC 882
 DB 125662 TTTTATATATTTAAATAAATAATATTTTATAATATATTTTAAAGATAAATACGTTTTATAA 125603
 QY 883 ATTCTCTCTAGAGAAAAAGCTTGTAACTTTCATTTCCATTAACCAATCTTTTATATATGTA 942
 DB 125602 TATATTTTAAAGATAAATAACGTTTTTATAATATATTTTAAAGATAAATACATTTTATAATATA 125543
 QY 943 AGTTTATTTTATTAAGTATACATTTTATTTATGTCTAGTTTATTAATATGATTTATTTA 1002
 DB 125542 TTTTAAAGATAAATAACGTTTTTATAACATATTTTAAAGATAAATAATGTTTTATAATATATTT 125483
 QY 1003 TAGAAAAAATTTATCTGATGTTGATATTTAGTATAAAGCAAAATATATTTTATGATAAATAC 1062
 DB 125482 AAGATATATTTTAAATATATTTAAATAAATAATTTAAAAATAAATAATTTTAAATATAT 125423
 QY 1063 TATAGAAACAAGATATCTTAGGCTTTAAATAAACAATGAATATCATATAA 1111
 DB 125422 TTTTAAATATTTAAAAATATTTATGTTTAAAGAAAGCCATAAATAATATATAA 125374

RESULT 10
 US-11-121-086-38/c
 ; Sequence 38, Application US/11121086
 ; Publication No. US20050266459A1
 ; GENERAL INFORMATION:
 ; APPLICANT: POULSEN, TIM S.
 ; APPLICANT: NIELSEN, KIRSTEN V.
 ; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
 ; FILE REFERENCE: 09138.6000-00000
 ; CURRENT APPLICATION NUMBER: US/11/121,086
 ; CURRENT FILING DATE: 2005-05-04
 ; PRIOR APPLICATION NUMBER: 60/567,570
 ; PRIOR FILING DATE: 2004-05-04
 ; NUMBER OF SEQ ID NOS: 107
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 38
 ; LENGTH: 151169
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-11-121-086-38
 Query Match 5.2%; Score 57.6; DB 7; Length 151169;
 Best Local Similarity 49.3%; Pred. No. 0.0039;
 Matches 150; Conservative 0; Mismatches 154; Indels 0; Gaps 0;
 QY 808 ATATTTTATTTGTCATTCATTAATGCAACAGAAAAAGTATGTACTTTTAAAAAATTTGTTGAA 867
 DB 47651 ATATATATATATAATATAAT 47592
 QY 868 AGGAGGTACTCTCTCACTCTCTAGAGAAAGCTATGTAACCTTCATTTCCATAACCAA 927
 DB 47591 ATATATATTTTATATATATATAATATAATATATATTTTATATATATATATATATATATAA 47532
 QY 928 TACTTTATATATGTAAGTTTATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 987
 DB 47531 GTATATATTTTATAAATATATATATATATATATATATATATATATAATATAATATAAAT 47472
 QY 988 ATATGAGTTTATTTATAGAAAAATTTCTGATGTTGATATTTGAGTATAAGCAAAATAT 1047
 DB 47471 ATATATAATATAAATAATATAAATAATATAATATATATATATGAATAAATAATATATATAT 47412
 QY 1048 ATTTATGATATAACTATAGAAACAAGATATCTTAGGCTTTTAAATAACAACATGAATATCA 1107
 DB 47411 ATTTATATAATATAATATAATTTATTTATGATATATATATATATATATATATAATATAATA 47352
 QY 1108 TAAA 1111
 DB 47351 TATA 47348
 RESULT 11
 US-11-121-086-105

; Sequence 105, Application US/11121086
 ; Publication No. US20050266459A1
 ; GENERAL INFORMATION:
 ; APPLICANT: POULSEN, TIM S.
 ; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
 ; FILE REFERENCE: 09138.6000-00000
 ; CURRENT APPLICATION NUMBER: US/11/121,086
 ; PRIOR FILING DATE: 2005-05-04
 ; CURRENT APPLICATION NUMBER: 60/567,570
 ; PRIOR FILING DATE: 2004-05-04
 ; NUMBER OF SEQ ID NOS: 107
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 105
 ; LENGTH: 171486
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-11-121-086-105

Query Match 5.0%; Score 55.6; DB 7; Length 171486;
 Best Local Similarity 54.8%; Pred. No. 0.012;
 Matches 172; Conservative 0; Mismatches 139; Indels 3; Gaps 3;
 QY 799 TCATTGACATATTTTATTCCTGATGTAATGCAACAGAAAAGTATGTAATTTTAAAAA 858
 DB 16418 TAATATATATATTTATTAATTTATATATATATATATATATATATATATATATAT 16477
 QY 859 TTGTTTGAAGAGGTTACCTCTCATTCCTAGAGAAAAGCTATGTAATTTTC 918
 DB 16478 TATATATATATTTATTTACATTTATATATATATATATATATATATATATATAT 16536
 QY 919 CATAACCAATFACCTTTATATATGTAAGTTTATTTATTTATATA-AGTATACATTTTATTTATGT 977
 DB 16537 AATATATAATACAT 16596
 QY 978 CAGTTTATTAATGAGTTTATTTATAGAAAATTTATCTGATGTTGATTTTTCAGTATATA 1037
 DB 16597 TTATATATTTAT 16656
 QY 1038 AGCAATAATTTTATGATATAATACATATAGAAAAGAGATATCTAGGCTTTTAAATAACAC 1097
 DB 16657 TATTTACATATTAAT-ATATAAATATATATATATATATATATATATATATATATAT 16715
 QY 1098 ATGAATATCATATAA 1111
 DB 16716 TATTATATATAA 16729

RESULT 12
 US-10-995-561-13473
 ; Sequence 13473, Application US/10995561
 ; Publication No. US2005027054A1
 ; GENERAL INFORMATION:
 ; APPLICANT: CARGILL, Michele et al.
 ; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
 ; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
 ; TITLE OF INVENTION: DETECTION AND USES THEREOF
 ; FILE REFERENCE: CL001559
 ; CURRENT APPLICATION NUMBER: US/10/995,561
 ; CURRENT FILING DATE: 2004-11-24
 ; NUMBER OF SEQ ID NOS: 85702
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 13473
 ; LENGTH: 394468
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (1)-(394468)
 ; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
 US-10-995-561-13473

Query Match 5.0%; Score 55.6; DB 6; Length 394468;

Best Local Similarity 50.0%; Pred. No. 0.018;
 Matches 168; Conservative 1; Mismatches 160; Indels 7; Gaps 1;
 QY 782 TTGATAACCAACAAAGATTTCATTGACAAATATTTTATTGTTCATTGATTAATGCAACAGAAAAA 841
 DB 340523 TTTTATAAATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 340582
 QY 842 GTATGTACTTTTAAAAAATTTGTTGAAAAGAGGTTACCTCTCAATTCCTCTAGA-----A 894
 DB 340583 TTTTATACATATAAAAAATTTGTTATATAAATAAATAAATAAATAAATAAATAAATAA 340642
 QY 895 GAAAAGCCTATGTAACCTTCATTTCATTAACCAATCTATTATATATGTAAGTTTATTTATT 954
 DB 340643 ATAAAAATGATATATATATTTATGTATAAATAAATAAATAAATAAATAAATAAATAA 340702
 QY 955 ATAAGTATACATTTTATTTTATGTCAGTTTATTAATATGGAATTTATTTATAGAAAAATTTAT 1014
 DB 340703 TGCATTTATATATTTATGTATAAATAAATAAATAAATAAATAAATAAATAAATAA 340762
 QY 1015 CTGATGTTGATATTTGAGTATATAAGCAATAAATAAATAAATAAATAAATAAATAAATAA 1074
 DB 340763 TTTATATATTTATGTATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 340822
 QY 1075 ATATCTTAGGCTTTATATAACACATGAATATCATAA 1110
 DB 340823 TATATTTATGTATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 340858
 RESULT 13
 US-10-995-561-13313/c
 ; Sequence 13313, Application US/10995561
 ; Publication No. US2005027054A1
 ; GENERAL INFORMATION:
 ; APPLICANT: CARGILL, Michele et al.
 ; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
 ; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
 ; TITLE OF INVENTION: DETECTION AND USES THEREOF
 ; FILE REFERENCE: CL001559
 ; CURRENT APPLICATION NUMBER: US/10/995,561
 ; CURRENT FILING DATE: 2004-11-24
 ; NUMBER OF SEQ ID NOS: 85702
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 13313
 ; LENGTH: 26772
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-995-561-13313

Query Match 5.0%; Score 55.2; DB 6; Length 26772;
 Best Local Similarity 50.7%; Pred. No. 0.0061;
 Matches 152; Conservative 2; Mismatches 145; Indels 1; Gaps 1;
 QY 767 AGACCAGAGGTAGACTTTGATAACCAACAGAGATTTCATTGACAAATATTTTATTGTCATTGAT 826
 DB 21931 ATATAAATATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTAT 21872
 QY 827 AATGCAACAGAAAAAGTATGTAATTTAAAAAATTTGTTGAAAAGAGGTTACCTCTCATTC 886
 DB 21871 ATAAATTTCTATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 21813
 QY 887 CTCTAGAGAAAAGCCTATGTAACCTTCATTTCCATAACCAATCTTTATATATATGTAAGTT 946
 DB 21812 TAATATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTAT 21753
 QY 947 TATTTATTAAGTATACATTTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTA 1006
 DB 21752 TTATATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 21693
 QY 1007 AAAATTTATCTGATTTGATATTTTGAATAAAGCAAAATAATTTTATGTAATAAATAA 1066
 DB 21692 TATAATATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 21633

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OM nucleic - nucleic search, using sw model

Run on: December 20, 2005, 13:17:12 ; Search time 48.1106 Seconds
(without alignments)
7442.822 Million cell updates/sec

Title: US-09-751-797-24

Perfect score: 690

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Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4168288 seqs, 259477437 residues

Total number of hits satisfying chosen parameters: 8336576

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications NA New.*
1: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq.*
2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
4: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
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8: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq2.*
9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq3.*
10: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	690	100.0	690	7	US-11-177-987-25
2	676	98.0	1152	7	US-11-102-240-153
3	409.2	59.3	1119	7	US-11-177-987-7
4	407.6	59.1	1111	7	US-11-177-987-9
5	317	45.9	418	7	US-11-177-987-18
6	258	37.4	4797	7	US-11-177-987-26
7	127.6	18.5	5935	7	US-11-177-987-42
8	126	18.3	7445	7	US-11-177-987-8
9	38.8	5.6	1816	6	US-10-750-185-40262
10	36.4	5.3	152335	7	US-11-121-086-73
11	36	5.2	3485	6	US-10-821-234-300
12	34.4	5.0	1437	6	US-10-750-185-43510
13	33.8	4.9	3044	6	US-10-750-185-31621
14	32.6	4.7	2673	6	US-10-750-185-43708
15	32.2	4.7	2126	6	US-10-750-185-50850
16	32	4.6	3641	7	US-11-113-424-19
17	32	4.6	3692	7	US-11-113-424-21
18	31.6	4.6	86081	6	US-10-995-561-13246
19	31.4	4.6	2697	6	US-10-750-185-59603
20	31	4.5	600	6	US-10-750-185-1430
21	31	4.5	873	6	US-10-750-185-60900
22	31	4.5	1183	6	US-10-995-561-504
23	31	4.5	2138	6	US-10-995-561-500

ALIGNMENTS

RESULT 1

US-11-177-987-25

; Sequence 25, Application US/11177987

; Publication No. US20050271619A1

; GENERAL INFORMATION:

; APPLICANT: Dumoutier, Laure

; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac

; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

; FILE REFERENCE: LUD 5664

; CURRENT APPLICATION NUMBER: US/11/177,987

; CURRENT FILING DATE: 2005-07-07

; PRIOR APPLICATION NUMBER: US/09/626,617

; PRIOR FILING DATE: 2000-07-27

; PRIOR APPLICATION NUMBER: US09/419,568

; PRIOR FILING DATE: 1999-10-18

; PRIOR APPLICATION NUMBER: US09/354,243

; PRIOR FILING DATE: 1999-07-16

; PRIOR APPLICATION NUMBER: US09/178,973

; PRIOR FILING DATE: 1998-10-26

; NUMBER OF SEQ ID NOS: 43

; SEQ ID NO 25

; LENGTH: 690

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

US-11-177-987-25

Query Match 100.0%; Score 690; DB 7; Length 690;

Best Local Similarity 100.0%; Pred. No. 3.2e-215;

Matches 690; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGCACAGCAGAAATCTTTCAGAACAGAGTTCTCTCCCTCCAGTCACAGTTGCTCGAGTTAG 60

Db 1 TGCACAGCAGAAATCTTTCAGAACAGAGTTCTCTCCCTCCAGTCACAGTTGCTCGAGTTAG 60

Qy 61 AATTGCTGCAATGGCGCCCTCGAGAAATCTGTAGCTCTTCTTATGGGACCTGG 120

Db 61 AATTGCTGCAATGGCGCCCTCGAGAAATCTGTAGCTCTTCTTATGGGACCTGG 120

Qy 121 CCACCAAGCTCCCTCTTCTTGGCCCTCTTGGTACAGGAGGAGCAGCTCGGCCATCA 180

Db 121 CCACCAAGCTCCCTCTTCTTGGCCCTCTTGGTACAGGAGGAGCAGCTCGGCCATCA 180

Qy 181 GTCCCACTCAGCGTTGCAAGTCCAACTTCCAGAGCCCTATATCAACACGCACT 240

Db 181 GTCCCACTCAGCGTTGCAAGTCCAACTTCCAGAGCCCTATATCAACACGCACT 240

Qy 181 GTCCCACTCAGCGTTGCAAGTCCAACTTCCAGAGCCCTATATCAACACGCACT 240

Db 181 GTCCCACTCAGCGTTGCAAGTCCAACTTCCAGAGCCCTATATCAACACGCACT 240

Qy 181 GTCCCACTCAGCGTTGCAAGTCCAACTTCCAGAGCCCTATATCAACACGCACT 240

Db 181 GTCCCACTCAGCGTTGCAAGTCCAACTTCCAGAGCCCTATATCAACACGCACT 240

Db 181 GCTCCACTGAGGCTTGACAAAGTCCAACTTCACAGAGCCCTATATCACCAACCGCACCT 240
Qy 241 TCATGCTGGCTAAGGAGGCTAGCTTGGCTGATTAACAACAGAGCTTCGTCATATTGGGG 300
Db 241 TCATGCTGGCTAAGGAGGCTAGCTTGGCTGATTAACAACAGAGCTTCGTCATATTGGGG 300
Qy 301 AGAACTGTTCCACGGAGTCAAGTATGATGAGTGAAGCGCTGCTATCTGATGAAGCAGGTGCTGA 360
Db 301 AGAACTGTTCCACGGAGTCAAGTATGATGAGTGAAGCGCTGCTATCTGATGAAGCAGGTGCTGA 360
Qy 361 ACTTCACCCCTTGAAGAAGTGTGTTCCCTCAATCTGATAGGTTCCAGGCTTATATGCAGG 420
Db 361 ACTTCACCCCTTGAAGAAGTGTGTTCCCTCAATCTGATAGGTTCCAGGCTTATATGCAGG 420
Qy 421 AGGTGCTGCTTCCCTGAGGCTCAGCAACAGGCTAAGCAATGTCATATTGAAGGTG 480
Db 421 AGGTGCTGCTTCCCTGAGGCTCAGCAACAGGCTAAGCAATGTCATATTGAAGGTG 480
Qy 481 ATGACCTGCATATCCAGAGGATGTCGAAAGCTGGAAGGACACAGTGAAGAAGCTTGGAG 540
Db 481 ATGACCTGCATATCCAGAGGATGTCGAAAGCTGGAAGGACACAGTGAAGAAGCTTGGAG 540
Qy 541 AGAGTGGAGAGATCAAAAGCAATGGAGAACTGGATTTGCTGTTATGTTCTCTGAGAAATG 600
Db 541 AGAGTGGAGAGATCAAAAGCAATGGAGAACTGGATTTGCTGTTATGTTCTCTGAGAAATG 600
Qy 601 CCTGATTGACAGAGCAAAAGCTGAAATGAAATGAAATACTAACCCCTTCCCTGCTAGAA 660
Db 601 CCTGATTGACAGAGCAAAAGCTGAAATGAAATGAAATACTAACCCCTTCCCTGCTAGAA 660
Qy 661 ATACAAATTAGATGCCCCAAGCGATTTTT 690
Db 661 ATACAAATTAGATGCCCCAAGCGATTTTT 690

RESULT 2

US-11-102-240-153
; Sequence 153, Application US/11102240
; Publication No. US20050260647A1
; GENERAL INFORMATION:
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: ANTIBODIES TO POLYPEPTIDES ENCODED BY A NUCLEIC ACID UNDEREXPRESS
; TITLE OF INVENTION: ESOPHAGEAL TUMOR
; FILE REFERENCE: P3230R1C106C
; CURRENT APPLICATION NUMBER: US/11/102,240
; PRIOR FILING DATE: 2005-04-08
; PRIOR APPLICATION NUMBER: 10/063662
; PRIOR FILING DATE: 2002-05-07
; PRIOR APPLICATION NUMBER: 10/006867
; PRIOR FILING DATE: 2001-12-06
; PRIOR APPLICATION NUMBER: PCT/US00/23328
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: 60/170262
; PRIOR FILING DATE: 199-12-09
; NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 153
; TYPE: DNA
; ORGANISM: Homo Sapien
US-11-102-240-153

Query Match 98.0%; Score 676; DB 7; Length 1152;
Best Local Similarity 100.0%; Pred. No. 1.6e-210; Indels 0; Gaps 0;
Matches 676; Conservative 0; Mismatches 0

Qy 15 CTTGAGAACAGGTTCTCCCTCCAGTCACCAGTTCGAGTTGCTCGAGTTAGAAATGTTCTGCAATG 74
Db 1 CTTGAGAACAGGTTCTCCCTCCAGTCACCAGTTCGAGTTGCTCGAGTTAGAAATGTTCTGCAATG 60

Qy 75 GCGCCCTGCAGAAATCTGTGAGCTCTTTCTTATGGGACCCCTGGCCACAGCTGCCTC 134
Db 61 GCGCCCTGCAGAAATCTGTGAGCTCTTTCTTATGGGACCCCTGGCCACAGCTGCCTC 120
Qy 135 CTTCTCTTGGCCCTCTTTGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCATGCGAGG 194
Db 121 CTTCTCTTGGCCCTCTTTGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCATGCGAGG 180
Qy 195 CTTGACAAAGTCCAACTTCCAGAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAG 254
Db 181 CTTGACAAAGTCCAACTTCCAGAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAG 240
Qy 255 GAGGCTAGCTTGGCTGATAAACAACAGAGCTTCGCTCATTTGGGGAGAAACTTTCCAC 314
Db 241 GAGGCTAGCTTGGCTGATAAACAACAGAGCTTCGCTCATTTGGGGAGAAACTTTCCAC 300
Qy 315 GAGGCTAGCTTGGCTGATAAACAACAGAGCTTCGCTCATTTGGGGAGAAACTTTCCAC 374
Db 301 GAGGCTAGCTTGGCTGATAAACAACAGAGCTTCGCTCATTTGGGGAGAAACTTTCCAC 360
Qy 375 GAGGCTAGCTTGGCTGATAAACAACAGAGCTTCGCTCATTTGGGGAGAAACTTTCCAC 434
Db 361 GAGGCTAGCTTGGCTGATAAACAACAGAGCTTCGCTCATTTGGGGAGAAACTTTCCAC 420
Qy 435 CTGCCCAGGCTCAGCAACAGGCTAAGCACATGTCATATTTGAAGGTGATGACCTGCATATC 494
Db 421 CTGCCCAGGCTCAGCAACAGGCTAAGCACATGTCATATTTGAAGGTGATGACCTGCATATC 480
Qy 495 CAGAGGAATGTCAAAAAGCTGAAAGGACACAGTGAAGAAAGCTTTGGAGAGGTGGAAGATC 554
Db 481 CAGAGGAATGTCAAAAAGCTGAAAGGACACAGTGAAGAAAGCTTTGGAGAGGTGGAAGATC 540
Qy 555 AAAGCAATTGAGAGAACTGGATTTGCTGTTATGCTCTGAGAAATGCTGCAATTTGACCA 614
Db 541 AAAGCAATTGAGAGAACTGGATTTGCTGTTATGCTCTGAGAAATGCTGCAATTTGACCA 600
Qy 615 GAGCAAGCTGAAAAATGAAATACTAACCCCTTCCCTGCTAGAAATAACAATTAGATG 674
Db 601 GAGCAAGCTGAAAAATGAAATACTAACCCCTTCCCTGCTAGAAATAACAATTAGATG 660
Qy 675 CCCCCAAGCGATTTTT 690
Db 661 CCCCCAAGCGATTTTT 676

RESULT 3

US-11-177-987-7
; Sequence 7, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 7
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-11-177-987-7


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; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 18
; LENGTH: 418
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-11-177-987-18

Query Match      45.9%; Score 317; DB 7; Length 418;
Best Local Similarity 100.0%; Pred. No. 1.6e-93;
Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 374 AGAAGTGTCTTCCCTCAATCTGATAGTTCCAGCCTTATATGCGAGGTTGGTCCCTT 433
Db 1 AGAAGTGTCTTCCCTCAATCTGATAGTTCCAGCCTTATATGCGAGGTTGGTCCCTT 60

Qy 434 CTGCGCAGGCTCAGCAACAGGCTAAGCACATGTTCATATTGAAGTGTATGACCTGCATAT 493
Db 61 CTGCGCAGGCTCAGCAACAGGCTAAGCACATGTTCATATTGAAGTGTATGACCTGCATAT 120

Qy 494 CCAGAGGAATGTCAAAAGCTGAAGGACACAGTGAAGGCTGAGAGAGTGGAGAGAT 553
Db 121 CCAGAGGAATGTCAAAAGCTGAAGGACACAGTGAAGGCTGAGAGAGTGGAGAGAT 180

Qy 554 CAAAGCAATTGGAGACTGGATTTGCTGTTATGTTCTCTGAGAAATGCTGCATTTGACC 613
Db 181 CAAAGCAATTGGAGACTGGATTTGCTGTTATGTTCTCTGAGAAATGCTGCATTTGACC 240

Qy 614 AGAGCAAGCTGAAAAATGAATACTAACCCCTTTCCCTGCTAGAAATAACAATTAGAT 673
Db 241 AGAGCAAGCTGAAAAATGAATACTAACCCCTTTCCCTGCTAGAAATAACAATTAGAT 300

Qy 674 GCCCCAAAGCGATTTT 690
Db 301 GCCCCAAAGCGATTTT 317

RESULT 6
US-11-177-987-26
; Sequence 26, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 26
; LENGTH: 4797
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-11-177-987-26
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Query Match      37.4%; Score 258; DB 7; Length 4797;
Best Local Similarity 100.0%; Pred. No. 1.2e-73;
Matches 258; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGCACAAGCAGAAATCTTTCAGAACAGAGTTCTCTTCCCTCCAGTCCAGTTCCTCAGTTAG 60
Db 1 TGCACAAGCAGAAATCTTTCAGAACAGAGTTCTCTTCCCTCCAGTCCAGTTCCTCAGTTAG 60

Qy 61 AATTGTCTGCAANTGGCCGCTTCAGAAATCTGTGAGCTCTTTCTTATGGGACCCCTGG 120
Db 61 AATTGTCTGCAANTGGCCGCTTCAGAAATCTGTGAGCTCTTTCTTATGGGACCCCTGG 120

Qy 121 CCACCACTGCTCTCTTCTTGGCCCTCTTGGTACAGGAGGAGCAGCTGCGCCCATCA 180
Db 121 CCACCACTGCTCTCTTCTTGGCCCTCTTGGTACAGGAGGAGCAGCTGCGCCCATCA 180

Qy 181 GCTCCCACTGAGGCTTTCAGAAAGTCCAACTTCCAGCAGCCCTATATCACCACCGCACCT 240
Db 181 GCTCCCACTGAGGCTTTCAGAAAGTCCAACTTCCAGCAGCCCTATATCACCACCGCACCT 240

Qy 241 TCATGCTGGCTTAAGGAGG 258
Db 241 TCATGCTGGCTTAAGGAGG 258

RESULT 7
US-11-177-987-42
; Sequence 42, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 42
; LENGTH: 5935
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-11-177-987-42

Query Match      18.5%; Score 127.6; DB 7; Length 5935;
Best Local Similarity 72.2%; Pred. No. 5.1e-31;
Matches 166; Conservative 0; Mismatches 64; Indels 0; Gaps 0;

Qy 29 CTCCTTCCCACTCAGTTGCTCGAGTTAGAATTGTCGAATGGCCGCTTCGAGAA 88
Db 356 CTCCTTCCCACTCAGTTGCTCGAGTTAGAATTGTCGAATGGCCGCTTCGAGAA 415

Qy 89 ATCTGTGAGCTCTTTCTTATGGGACCCCTGCGCACAGCTGCTCTCTTCTTGGCCCT 148
Db 416 ATCTGTGAGCTCTTTCTTATGGGACCTTGGCGCCAGCTGCTCTCTTCTTGGCCCT 475

Qy 149 CTTGGTACAGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCGAGGTTGACAAATCAA 208
Db 476 GTGGGCCAGGAGGCAAAATGCGTCCCATCAACACCGGTGCAAGCTTGAGGTGTCAA 535

Qy 209 CTTCCAGCAGCCCTATATCACCACCGCACCTTCTATGCTGCTTAAGGAGG 258
Db 536 CTTCCAGCAGCCCTATATCAGTCAACCGCACCTTTATGCTGCGCAAGGAGG 585
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RESULT 8
US-11-177-987-8
; Sequence 8, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1998-10-26
; PRIOR APPLICATION NUMBER: US09/178,973
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 8
; LENGTH: 7445
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-11-177-987-8
Query Match 18.3%; Score 126; DB 7; Length 7445;
Best Local Similarity 71.7%; Pred. No. 1.9e-30;
Matches 165; Conservative 0; Mismatches 65; Indels 0; Gaps 0;
Qy 29 CTCCTCCCGCAGTCACAGTGTGCGAGTTGAGATTCTGCAATGCTGCAATGCGCCGCTGCAGAA 88
Db 2034 CTCCTCTTCCTATCACTGTGACACTTGTGCGATCTCTGATGCTGTCTGCTGCAGAA 2093
Qy 89 ATCTGTGAGCTTTCTCTTATGGGACCTGGCCACAGCTGCTCTCTCTCTTGTGGCCCT 148
Db 2094 ATCTATGAGTTTTCCTCTATGGGACTTTGGCCGCGAGCTGCTCTCTCTATGCTCT 2153
Qy 149 CTGTGTACAGGAGGAGCAGTGGCGCCATCAGCTCCACTGCAAGGCTTGACAAAGTCCAA 208
Db 2154 GTGGGCCAGGAGCAATGCGTCCCGTCAACACCCGGTGCAGCTTGAGGTGTCCAA 2213
Qy 209 CTTCACGAGCCCTATATACCAACCGCACCTTCATCTGCTGCTAAGGAGG 258
Db 2214 CTTCACGAGCCGTACATCGTCAACCGCACCTTTATGCTGCGCAAGGAGG 2263
RESULT 9
US-10-750-185-40262
; Sequence 40262, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: Denise, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 40262
; LENGTH: 1816
; TYPE: DNA
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; ORGANISM: Bovine 19866880478059
US-10-750-185-40262
Query Match 5.6%; Score 38.8; DB 6; Length 1816;
Best Local Similarity 54.1%; Pred. No. 0.026;
Matches 79; Conservative 0; Mismatches 67; Indels 0; Gaps 0;
Qy 72 ATGCGCGCCCTGCGAGAAATCTGTGAGCTCTTTCTTATGGGACCCCTGGCCACCCAGTGC 131
Db 330 ATGGAAGCTCAGTGGAAACTCTGAGTTAAACCTCAGGGAGAACCCAGTCTATCGGGGC 389
Qy 132 CTCCTTCTCTTGGCCCTCTTGTGACAGGAGGAGCAGCTGGCCCATCAGTCTCCATGC 191
Db 390 CCCTATTTTGTGAGTTTATCTCAAGGAGCTCGACCAGGTCTTCTACAGCAACACTGG 449
Qy 192 AGGCTTGACAAAGTCCAACTTCCAGCA 217
Db 450 AGAAAAACCTTTTGTACTCCAGGA 475
RESULT 10
US-11-121-086-73
; Sequence 73, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 73
; LENGTH: 152335
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-73
Query Match 5.3%; Score 36.4; DB 7; Length 152335;
Best Local Similarity 47.4%; Pred. No. 2;
Matches 109; Conservative 0; Mismatches 121; Indels 0; Gaps 0;
Qy 377 AGTGTCTGTTCCCTCAATCTGATAGTTCCAGCCTTATATCAGGAGTGTGCTCTTCT 436
Db 87482 AGCTCTGGGCCCTGCGAGCCACCAACCACTTGTGTCAAGTCACTTTGTGTGCTGCT 87541
Qy 437 GGCAGGCTCAGCAACAGGCTAAGCACATGTCATATTTGAAGGTGATGACCTGCATATCCA 496
Db 87542 AAAATGGCAGATTCTCTGGCCTCCCGCAGCATGATGAATAAGATCTGTGCTTAGGCT 87601
Qy 497 GAGGAATGTGCAAAAGCTGAAGACACAGTGAAGAGTGAAGAGTGGAGAGAGTGGAGATCAA 556
Db 87602 TTGATAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAA 87661
Qy 557 AGCAATTGGAGAACTGGAATTTGCTTTTATGTCTCTGAGAAATGCCCTGCA 606
Db 87662 AGAAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 87711
RESULT 11
US-10-821-234-300
; Sequence 300, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
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Db      27  CCGACCTCAGGGGCACTGTGTCTCTGCTGGGGCTGCTGTCTCCCCAGCT-CCTCC 85
Qy      136  TTCTCTTGGCCCTCTTGCTACAGGAGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGC 195
Db      86  TCCCTGGGGCCAGGTCTCTCAGCCCCGAGCAGGGAGGCCCGGAGGCATGACAGCAGTC 145
Qy      196  TTG 198
Db      146  TGG 148
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RESULT 15
US-10-750-185-50850
; Sequence 50850, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 50850
; LENGTH: 2126
; TYPE: DNA
; ORGANISM: Bovine 19866881174911
US-10-750-185-50850
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Query Match      4.7%; Score 32.2; DB 6; Length 2126;
Best Local Similarity 49.0%; Pred. No. 4;
Matches 117; Conservative 0; Mismatches 118; Indels 4; Gaps 1;

Qy      441  AGGCTCAGCAACAGGCTAAGCACATGTCAATTGAAGGTGATGACCTGCATATCCAGAGG 500
Db      1471  AGTTCTGAAAAATCTTTAACACAAGTCACATTACAGGTGATGAGGTAAATAGGAAGG 1530
Qy      501  AATGTGCAAAAGCTGAAG-----GACACAGTGAAAAAGCTTGGAGAGAGTGGAGAGATCAA 556
Db      1531  ATGAAGAAGAAATAAAGAATTTACTCTGTGAAAGCGAATTTGAGACAGAGGATTTTCAGAT 1590
Qy      557  AGCAATTGGAGAACTGGATTGCTGTTTATGTCTCTGAGAAATGCCTGCATTTGACCAGA 616
Db      1591  ATTTATTATTACTTCTGCTCTCTCTCTCATACACACATATGCACATCTTTCATA 1650
Qy      617  GCAAAGCTGAAAAATGAATAACTAACCCCTTTCCCTGCTAGAAATAACAAATTAGATGC 675
Db      1651  TTCATGTTTCAGAAATAAGAAGCCACCCTGTTGGAGTAGACAGCAATGTAATAAATAC 1709
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OM nucleic - nucleic search, using sw model

Run on: December 20, 2005, 13:17:12 ; Search time 542.979 Seconds
(without alignments)
15704.028 Million cell updates/sec

Title: US-09-751-797-25

Perfect score: 4797

Sequence: 1 tgcacagcagaattctcag.....gatgcccaagcgattttt 4797

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 3: /cgn2_6/ptodata/1/ina/6A/COMB.seq.*
- 4: /cgn2_6/ptodata/1/ina/6B/COMB.seq.*
- 5: /cgn2_6/ptodata/1/ina/H/COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/PCITUS/COMB.seq.*
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- 9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	4797	100.0	4797	3	US-09-419-568F-25
2	4797	100.0	4797	3	US-09-354-243B-25
3	4738.6	98.8	8888	3	US-09-949-016-17185
4	686	14.3	7445	3	US-09-178-973B-8
5	686	14.3	7445	3	US-09-419-568F-8
6	686	14.3	7445	3	US-09-354-243B-8
7	650	13.6	5935	3	US-09-178-973B-17
8	650	13.6	5935	3	US-09-419-568F-29
9	650	13.6	5935	3	US-09-354-243B-29
10	600.6	12.5	601	3	US-09-949-016-190092
11	600.6	12.5	601	3	US-09-949-016-190093
12	258	5.4	690	3	US-09-419-568F-24
13	258	5.4	690	3	US-09-354-243B-24
14	256	5.3	689	3	US-09-949-016-5443
15	244	5.1	1152	3	US-09-870-574-1
16	237	4.9	1191	3	US-10-084-298-1
17	207	4.3	1116	3	US-10-090-365-14
18	207	4.3	1116	3	US-09-728-911-14
19	140	2.9	601	3	US-09-949-016-86957
20	140	2.9	247781	3	US-09-949-016-14193
21	132.2	2.8	87780	3	US-09-949-016-17011
22	132.2	2.8	90428	3	US-09-949-016-12564
23	130.6	2.7	28213	3	US-09-949-016-12738
24	130.6	2.7	28216	3	US-09-949-016-13652

ALIGNMENTS

RESULT 1

US-09-419-568F-25

; Sequence 25, Application US/09419568F

; Patent No. 6331613

; GENERAL INFORMATION:

; APPLICANT: Dumoutier, Laure

; APPLICANT: Louhed, Jamila

; APPLICANT: Renauld, Jean-Christophe

; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac

; FILE REFERENCE: (TIFs) The Proteins Encoded, and Uses Thereof

; CURRENT APPLICATION NUMBER: US/09/419,568F

; PRIOR FILING DATE: 1999-10-18

; PRIOR FILING DATE: 1999-07-16

; PRIOR APPLICATION NUMBER: US09/178,973

; PRIOR FILING DATE: 1998-10-26

; NUMBER OF SEQ ID NOS: 29

; SEQ ID NO 25

; LENGTH: 4797

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

US-09-419-568F-25

Query Match	100.0%;	Score 4797;	DB 3;	Length 4797;	
Best Local Similarity	100.0%;	Pred. No. 0;			
Matches 4797;	Conservative	0;	Mismatches	0;	Gaps
0;					
Qy	1	TGCACAGCAGAAATCTTTCAGACAGAGTTCCTCTCCCAAGTACACAGTTCCTCGAGTTAG	60		
Db	1	TGCACAGCAGAAATCTTTCAGACAGAGTTCCTCTCCCAAGTACACAGTTCCTCGAGTTAG	60		
Qy	61	AATTGTCGAATGGCGCCCTTCGAGAAATCTGTAGCTCTTCTTATGGGACCTGG	120		
Db	61	AATTGTCGAATGGCGCCCTTCGAGAAATCTGTAGCTCTTCTTATGGGACCTGG	120		
Qy	121	CCACAGCTGCTCTCTCTCTGCGCCCTCTTGTACAGGAGGAGGAGCTGCGCCCATCA	180		
Db	121	CCACAGCTGCTCTCTCTCTGCGCCCTCTTGTACAGGAGGAGGAGCTGCGCCCATCA	180		
Qy	181	GCTCCCACTGAGGCTTGCAAGTCCAACTTCCAGAGCCCTATATCAACCAACCGACCT	240		
Db	181	GCTCCCACTGAGGCTTGCAAGTCCAACTTCCAGAGCCCTATATCAACCAACCGACCT	240		
Qy	241	TCATGCTGGTAAAGGAGGTATACATCTCAATCTCTTCTGCTTGGATCTACTTGA	300		
Db	241	TCATGCTGGTAAAGGAGGTATACATCTCAATCTCTTCTGCTTGGATCTACTTGA	300		

Db 241 TCATGCTGGCTAAGGAGGTATACATCTCAATCTGCTCTTTCTCTGTTGGATCTACTTGA 300
Qy 301 ATCCAAATAGTCTTAAACHTTTCTTCTCAGACATCTCTAAGAGCTTTTAGNACCCACTGT 360
Db 301 ATCCAAATAGTCTTAAACHTTTCTTCTCAGACATCTCTAAGAGCTTTTAGNACCCACTGT 360
Qy 361 TTATCCCTGAGGTAGATAAATTTCTGTTTTCTTCTCAGAGACTCTTTGGGAATCTGGCTTT 420
Db 361 TTATCCCTGAGGTAGATAAATTTCTGTTTTCTTCTCAGAGACTCTTTGGGAATCTGGCTTT 420
Qy 421 TTTTTTTCTTGAACHTTCTTCTTCCATTTTGGCTTTATGATACATATGATGAATTTT 480
Db 421 TTTTTTTCTTGAACHTTCTTCTTCCATTTTGGCTTTATGATACATATGATGAATTTT 480
Qy 481 CCCAAGAGCGGCAATTCAGTAAATCCATCTCATGATTTTTTTTTTCTTATGCTCTGTG 540
Db 481 CCCAAGAGCGGCAATTCAGTAAATCCATCTCATGATTTTTTTTTTCTTATGCTCTGTG 540
Qy 541 CATTTGTTCTAAACTCATGACACATCTGAATCTCTGTTTTTGTATGCTTTTATGATGTTGCTCT 600
Db 541 CATTTGTTCTAAACTCATGACACATCTGAATCTCTGTTTTTGTATGCTTTTATGATGTTGCTCT 600
Qy 601 GGGGAGCGGATGGGGCACATGCTATGTATATAAATTTTTTTTCTATTTGCTCAATGTCC 660
Db 601 GGGGAGCGGATGGGGCACATGCTATGTATATAAATTTTTTTTCTATTTGCTCAATGTCC 660
Qy 661 AGACCTTAGTCTTTTCTTCTTCTCCAGGCTAGCTTGGCTGATTAACAACACAGAGCTTCG 720
Db 661 AGACCTTAGTCTTTTCTTCTTCTCCAGGCTAGCTTGGCTGATTAACAACACAGAGCTTCG 720
Qy 721 TCTCATTTGGGAGAAACTGTTCCAGGAGTCAGTGTAAAGCTACAGTTGTGACGAACAGGG 780
Db 721 TCTCATTTGGGAGAAACTGTTCCAGGAGTCAGTGTAAAGCTACAGTTGTGACGAACAGGG 780
Qy 781 CCGTGTGCGCTCCATGGGTACTTGGGGTGTGGTGTGATGATGGTTTAGGCTCTTATCCCTTA 840
Db 781 CCGTGTGCGCTCCATGGGTACTTGGGGTGTGGTGTGATGATGGTTTAGGCTCTTATCCCTTA 840
Qy 841 TGACCTTCTGTTTCCCTTCCACTGCGAGATGAGTGAGCGCTGTATCTGATGAAGCAG 900
Db 841 TGACCTTCTGTTTCCCTTCCACTGCGAGATGAGTGAGCGCTGTATCTGATGAAGCAG 900
Qy 901 GTGCTGAACCTTCAACCTTGAAGAGTGTGTTCCCTCAATCTGATAGGTTCCAGCTTAT 960
Db 901 GTGCTGAACCTTCAACCTTGAAGAGTGTGTTCCCTCAATCTGATAGGTTCCAGCTTAT 960
Qy 961 ATGCAAGAGGTGGTGGCTTCTTGGCCAGGCTCAGCAACAGGCTAAGCACATGTGTAAGT 1020
Db 961 ATGCAAGAGGTGGTGGCTTCTTGGCCAGGCTCAGCAACAGGCTAAGCACATGTGTAAGT 1020
Qy 1021 TCAGCTCTCAGGCTATGCGCCACTACCCCTGCTTCCCTCTTCCACAGAGACCCCTTAC 1080
Db 1021 TCAGCTCTCAGGCTATGCGCCACTACCCCTGCTTCCCTCTTCCACAGAGACCCCTTAC 1080
Qy 1081 CCCAACTCTCTCCTTCCCTTCAACCTAGCTAGCAGGAAGTGTCTTGGCAGCAG 1140
Db 1081 CCCAACTCTCTCCTTCCCTTCAACCTAGCTAGCAGGAAGTGTCTTGGCAGCAG 1140
Qy 1141 TGTATCAGGAGTCATTTGGGATCATAGAGTATTTGCTTTTGTGCTAGTCAATC 1200
Db 1141 TGTATCAGGAGTCATTTGGGATCATAGAGTATTTGCTTTTGTGCTAGTCAATC 1200
Qy 1201 TTGAGTTATAGTGTGAATGGGCTCGAACTTAAAGTGTACAGAACCGCATTTGGTTTG 1260
Db 1201 TTGAGTTATAGTGTGAATGGGCTCGAACTTAAAGTGTACAGAACCGCATTTGGTTTG 1260
Qy 1261 TCTTCGGAAGAAAGGCACTCAGGTTGCTGAAGTGAAGAGGCTTGGGAACATCTA 1320
Db 1261 TCTTCGGAAGAAAGGCACTCAGGTTGCTGAAGTGAAGAGGCTTGGGAACATCTA 1320
Qy 1321 GCTGTGGAATGGATTCATTTAGTCTAAGTTGTTGAGGGGAGGGGATGGCATGGAGAA 1380
Db 1321 GCTGTGGAATGGATTCATTTAGTCTAAGTTGTTGAGGGGAGGGGATGGCATGGAGAA 1380

Qy 1381 ATTAGAAGAGAAAGTGGGAAAGCGCTTAAAGTCGTCGTCGGTTCGCGACACTGTT 1440
Db 1381 ATTAGAAGAGAAAGTGGGAAAGCGCTTAAAGTCGTCGTCGGTTCGCGACACTGTT 1440
Qy 1441 GCCCTGTTGATGTATGCGGAAGCCACAAAATCGGAGCGGTGTGAACCTGTATGCGCTGAA 1500
Db 1441 GCCCTGTTGATGTATGCGGAAGCCACAAAATCGGAGCGGTGTGAACCTGTATGCGCTGAA 1500
Qy 1501 CATTTGAAACTATGAAAGAAAGTTTGTAGTGGAGTGGGCCAGTAAAGGCCCTAGGACTT 1560
Db 1501 CATTTGAAACTATGAAAGAAAGTTTGTAGTGGAGTGGGCCAGTAAAGGCCCTAGGACTT 1560
Qy 1561 ACTGAAGAGGCTTAAATTTTACATGAGATGTTTATGTATCATATTTCTTGTCTTAAGCATG 1620
Db 1561 ACTGAAGAGGCTTAAATTTTACATGAGATGTTTATGTATCATATTTCTTGTCTTAAGCATG 1620
Qy 1621 CAATTTTCTGAGATACGATTTGAGGTTTTTATCTTACAGAAATTTGATAACTACTCCG 1680
Db 1621 CAATTTTCTGAGATACGATTTGAGGTTTTTATCTTACAGAAATTTGATAACTACTCCG 1680
Qy 1681 CTCTTTCCACAAATGCAAACTCTAGTAGGATTTCCCAAGATGAAGAGGCTCTCTTGTGA 1740
Db 1681 CTCTTTCCACAAATGCAAACTCTAGTAGGATTTCCCAAGATGAAGAGGCTCTCTTGTGA 1740
Qy 1741 AGGGAAGTGAAGTCTGCGCTTCCAGGGAATTTCAAGAGCTCAGGAAATCTAGGTCAC 1800
Db 1741 AGGGAAGTGAAGTCTGCGCTTCCAGGGAATTTCAAGAGCTCAGGAAATCTAGGTCAC 1800
Qy 1801 TGTGAAATCTAGGTCATTTGCGGCAAAATTTACTAAGAGCTTTTAAATTTCCAGGTCGAATGT 1860
Db 1801 TGTGAAATCTAGGTCATTTGCGGCAAAATTTACTAAGAGCTTTTAAATTTCCAGGTCGAATGT 1860
Qy 1861 ACTGTACTCTCAGTGGGTGAGGTTTCAATAAGTTTTCAGACAACTAAGATAGTATG 1920
Db 1861 ACTGTACTCTCAGTGGGTGAGGTTTCAATAAGTTTTCAGACAACTAAGATAGTATG 1920
Qy 1921 CTTGTTATTTTATAGCATATTTGAAGGTGATGACCTGCATATCCAGAGAAATGTGCAA 1980
Db 1921 CTTGTTATTTTATAGCATATTTGAAGGTGATGACCTGCATATCCAGAGAAATGTGCAA 1980
Qy 1981 AAGCTGAAGGACACAGTGAAGAGGTAGGACTGATAACTGTCAATGTCAATGTCATCAAT 2040
Db 1981 AAGCTGAAGGACACAGTGAAGAGGTAGGACTGATAACTGTCAATGTCAATGTCATCAAT 2040
Qy 2041 AGGAGAGCAAAATGTTGTTTTTCTTCTTCTTCCATCCTTCTTCCATCCTTGTGATTTTCA 2100
Db 2041 AGGAGAGCAAAATGTTGTTTTTCTTCTTCTTCCATCCTTCTTCCATCCTTGTGATTTTCA 2100
Qy 2101 CTTGATTTCTCTACACAGGCGCATTTACTTTTGGTGTCTGTGTATGTAGATATATCTATA 2160
Db 2101 CTTGATTTCTCTACACAGGCGCATTTACTTTTGGTGTCTGTGTATGTAGATATATCTATA 2160
Qy 2161 TATCTAGATGTCAGTTTCCAAATCTTGAATTTCTAGAAATTTAGAACTGTGGATCT 2220
Db 2161 TATCTAGATGTCAGTTTCCAAATCTTGAATTTCTAGAAATTTAGAACTGTGGATCT 2220
Qy 2221 TAGCTGTGTCAGTCAATACCTCAGATTTCTGGGGATGGTTCAGTGGCAGATAGGGCTA 2280
Db 2221 TAGCTGTGTCAGTCAATACCTCAGATTTCTGGGGATGGTTCAGTGGCAGATAGGGCTA 2280
Qy 2281 GAATGCAAGTCTCCTGAAATCCCAAGCCAGCACTTTTCCCGTGGTGTATACAGATTTAGTTT 2340
Db 2281 GAATGCAAGTCTCCTGAAATCCCAAGCCAGCACTTTTCCCGTGGTGTATACAGATTTAGTTT 2340
Qy 2341 TGGTACCAATTAATTTCTTAGGGAATTTTCCAGATTTCTTATTTGACTCATGTAATCTGAAGAAG 2400
Db 2341 TGGTACCAATTAATTTCTTAGGGAATTTTCCAGATTTCTTATTTGACTCATGTAATCTGAAGAAG 2400
Qy 2401 TACTTGTGTTAAAAACAGAAAAATGCTATGGGCAAAATTTTATTTGAGTCAATTTTGAAGT 2460
Db 2401 TACTTGTGTTAAAAACAGAAAAATGCTATGGGCAAAATTTTATTTGAGTCAATTTTGAAGT 2460

Qy	2461	CATTAATGCATTGCTTTGAACTTGGAAAGATATAAATCAGAACAAATGAGAAAGAGCTGG	2520
Db	2461	CATTAATGCATTGCTTTGAACTTGGAAAGATATAAATCAGAACAAATGAGAAAGAGCTGG	2520
Qy	2521	ACTTGCAATAGGCGCTAAATTTCTGGAGTAATAACACTTATTTTGAATTAATCATATAATC	2580
Db	2521	ACTTGCAATAGGCGCTAAATTTCTGGAGTAATAACACTTATTTTGAATTAATCATATAATC	2580
Qy	2581	TATCAGATATTTGATTAATAGTTTAAAGCAAGAGCAGACAACCCCGATCTCTTTTATACAG	2640
Db	2581	TATCAGATATTTGATTAATAGTTTAAAGCAAGAGCAGACAACCCCGATCTCTTTTATACAG	2640
Qy	2641	GTTCAATAGAGTAATAATATTAAGTAAGATTTTATATAGTTTAAATGGAAGCTGGAAT	2700
Db	2641	GTTCAATAGAGTAATAATATTAAGTAAGATTTTATATAGTTTAAATGGAAGCTGGAAT	2700
Qy	2701	GGTAAGCTTTTTTTCTCTCTCTCCCATCAAGACCTTCCATCTAGTTTCTTCCCTTCA	2760
Db	2701	GGTAAGCTTTTTTTCTCTCTCTCCCATCAAGACCTTCCATCTAGTTTCTTCCCTTCA	2760
Qy	2761	CTCCCTCAACAAATCCCTAGGAGCAATTTATCCATGGTGGGCTGGTGTACATTTCTATAG	2820
Db	2761	CTCCCTCAACAAATCCCTAGGAGCAATTTATCCATGGTGGGCTGGTGTACATTTCTATAG	2820
Qy	2821	TGAATGATACCATCATGTGGCTTATTTGGTGAAGAAACAAATGGAAGCTTTAGACTA	2880
Db	2821	TGAATGATACCATCATGTGGCTTATTTGGTGAAGAAACAAATGGAAGCTTTAGACTA	2880
Qy	2881	ACAAATGATGATCAATCATGTGGCTTATTTGGTGAAGAAACAAATGGAAGCTTTAGACTA	2940
Db	2881	ACAAATGATGATCAATCATGTGGCTTATTTGGTGAAGAAACAAATGGAAGCTTTAGACTA	2940
Qy	2941	GCAAGCAGGTACAACTAAATTAATCAGAAACATGAAGGCTCCAGTTGATGAAATTTTCAGT	3000
Db	2941	GCAAGCAGGTACAACTAAATTAATCAGAAACATGAAGGCTCCAGTTGATGAAATTTTCAGT	3000
Qy	3001	AACAAGCTTAACTTAAATTTCCCTTTTCCCTTTTCCCTTTTAAAGAAAGCGTTTCTTC	3060
Db	3001	AACAAGCTTAACTTAAATTTCCCTTTTCCCTTTTCCCTTTTAAAGAAAGCGTTTCTTC	3060
Qy	3061	CTGAGCATCATTTAATCAGGTGATCTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT	3120
Db	3061	CTGAGCATCATTTAATCAGGTGATCTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT	3120
Qy	3121	TTAAATTTGAGGCCAGTTCTCTTTGTTATAGAACTATTTATCTAGACATGAGAGGCTGAA	3180
Db	3121	TTAAATTTGAGGCCAGTTCTCTTTGTTATAGAACTATTTATCTAGACATGAGAGGCTGAA	3180
Qy	3181	TGTTAGCATGCCACAGCAAGGCAATGCTTTTACACATCTTGTCTTAAAGAAATTTACTGATTC	3240
Db	3181	TGTTAGCATGCCACAGCAAGGCAATGCTTTTACACATCTTGTCTTAAAGAAATTTACTGATTC	3240
Qy	3241	ATCTTGTCTGTTGTTTAAAGAGTGAAGTGTGAGAGAGAGAAATCTCATGTGTGATCTG	3300
Db	3241	ATCTTGTCTGTTGTTTAAAGAGTGAAGTGTGAGAGAGAGAAATCTCATGTGTGATCTG	3300
Qy	3301	TGTGATTTTCAAGACCTTTAATCCATTTTGAAGAAATCAATTTTCAATTTTCAATTTTCA	3360
Db	3301	TGTGATTTTCAAGACCTTTAATCCATTTTGAAGAAATCAATTTTCAATTTTCAATTTTCA	3360
Qy	3361	GCCATGTGGAAGAGTGAATGCTTTTGTGCTGTAGCTTCAAGAAAGCAGAGGAGGAGA	3420
Db	3361	GCCATGTGGAAGAGTGAATGCTTTTGTGCTGTAGCTTCAAGAAAGCAGAGGAGGAGA	3420
Qy	3421	GCAATGTGTTTCAAGAAAGATCAACAGAGGAGAAATCTGTGAGAGCTGTCTGAAATAGG	3480
Db	3421	GCAATGTGTTTCAAGAAAGATCAACAGAGGAGAAATCTGTGAGAGCTGTCTGAAATAGG	3480
Qy	3481	GTGTTTTTGGAGGCAATTAATCCCTCTCTGTTGGGGTAAAGCAGAACCGAGGTTGGTA	3540
Db	3481	GTGTTTTTGGAGGCAATTAATCCCTCTCTGTTGGGGTAAAGCAGAACCGAGGTTGGTA	3540
Qy	3541	GTAATAATGCATGACAGACAGTAGGGGACGATAAACTTTTAAATTTCTTTATAGTCTTGGAG	3600

Db	3541	GTAATAATGCATGACAGACAGTAGGGGACGATAAACTTTTAAATTTCTTTATAGTCTTGGAG	3600
Qy	3601	TCCTTTGAGATAGAAAAGAAATATCTTTTGGCCCTTATGTCAAAAGAAAGTATGGAAGGTGA	3660
Db	3601	TCCTTTGAGATAGAAAAGAAATATCTTTTGGCCCTTATGTCAAAAGAAAGTATGGAAGGTGA	3660
Qy	3661	AAGGCGGAAAGAAAGCAAGGAAAGCAATGATTAATATATAGAGGACAAATGGTGACA	3720
Db	3661	AAGGCGGAAAGAAAGCAAGGAAAGCAATGATTAATATATAGAGGACAAATGGTGACA	3720
Qy	3721	AGGTTTTTCTTGAATAATCAATATGATAGATTAAGAGAAATTTCAAGTAGGGGAATGCTT	3780
Db	3721	AGGTTTTTCTTGAATAATCAATATGATAGATTAAGAGAAATTTCAAGTAGGGGAATGCTT	3780
Qy	3781	TTCACTTTGAATTTGGGTTTCTCTTCGATTAAGTTTGGGATCCCTCATCTGCAATTTGACTT	3840
Db	3781	TTCACTTTGAATTTGGGTTTCTCTTCGATTAAGTTTGGGATCCCTCATCTGCAATTTGACTT	3840
Qy	3841	GGAGAGAAAGAAATGAATGTTAGGACCTATATCTGTTTTTCTTANTAACTAAAGCAAGTG	3900
Db	3841	GGAGAGAAAGAAATGAATGTTAGGACCTATATCTGTTTTTCTTANTAACTAAAGCAAGTG	3900
Qy	3901	GAAGAAGCTTTATTTGGTATTTTTTCCCAAAAGTGAAAACTTTTCTTTTACTGTTGTCA	3960
Db	3901	GAAGAAGCTTTATTTGGTATTTTTTCCCAAAAGTGAAAACTTTTCTTTTACTGTTGTCA	3960
Qy	3961	AAAAGGTGGAATAATAGAAAAAGCCTTAATGTTATTTGGTGAATACATGTTTCAAGTCATTTG	4020
Db	3961	AAAAGGTGGAATAATAGAAAAAGCCTTAATGTTATTTGGTGAATACATGTTTCAAGTCATTTG	4020
Qy	4021	AGTAGAGATGTTTTTAAATCAGGAGTGTCCAATCATTTGGGCTTCCCTGGACCACTTGAAA	4080
Db	4021	AGTAGAGATGTTTTTAAATCAGGAGTGTCCAATCATTTGGGCTTCCCTGGACCACTTGAAA	4080
Qy	4081	GAATTTGCTTTGGTACACATATAAATACAGAAACAAATAGCTGATGAGCTTAAAAAGTCCA	4140
Db	4081	GAATTTGCTTTGGTACACATATAAATACAGAAACAAATAGCTGATGAGCTTAAAAAGTCCA	4140
Qy	4141	TGCATAAATCTCATCTGTTTAAAGAAAGTTTAAATTTCTGTTAGGGTGCATTTCAAAG	4200
Db	4141	TGCATAAATCTCATCTGTTTAAAGAAAGTTTAAATTTCTGTTAGGGTGCATTTCAAAG	4200
Qy	4201	CTGTCCTGGGCCATGTGCGGCCCTGTGGGCTGCAGGTTTGGACAAAGCTCCTTATAAGTAATC	4260
Db	4201	CTGTCCTGGGCCATGTGCGGCCCTGTGGGCTGCAGGTTTGGACAAAGCTCCTTATAAGTAATC	4260
Qy	4261	TGTCATAGATAGTTTGGAGCTGCAAAACAGGCCCAAGGCATAATGGGTGGCACTCGGGAT	4320
Db	4261	TGTCATAGATAGTTTGGAGCTGCAAAACAGGCCCAAGGCATAATGGGTGGCACTCGGGAT	4320
Qy	4321	CCCCCAGATCCAGCCTCAGTCTCAGTCTCCTGCTGCTGTTTAAAGAGGGTGGTCAACTC	4380
Db	4321	CCCCCAGATCCAGCCTCAGTCTCAGTCTCCTGCTGCTGTTTAAAGAGGGTGGTCAACTC	4380
Qy	4381	TCGCCCCAGCTTTTAAACAGCTTCATTAGTGTGAGGTGCACCTGAAATTTGATGCTGCTG	4440
Db	4381	TCGCCCCAGCTTTTAAACAGCTTCATTAGTGTGAGGTGCACCTGAAATTTGATGCTGCTG	4440
Qy	4441	GTGGCCTCTCAGTCCAGAGAGCCGTCAATTTTAAAGCTTTTGGGCAAAATCATACAATACTAA	4500
Db	4441	GTGGCCTCTCAGTCCAGAGAGCCGTCAATTTTAAAGCTTTTGGGCAAAATCATACAATACTAA	4500
Qy	4501	AGGATATTAATATGATGATTTTACAAATGCTTAAACTCGGTTTCTGCTCCATCAACC	4560
Db	4501	AGGATATTAATATGATGATTTTACAAATGCTTAAACTCGGTTTCTGCTCCATCAACC	4560
Qy	4561	TAATCTTGCAATTTCTAAATTTGTTTCACTTTAGAAAAACATGGCATAAATGCTCAAAATCTT	4620
Db	4561	TAATCTTGCAATTTCTAAATTTGTTTCACTTTAGAAAAACATGGCATAAATGCTCAAAATCTT	4620
Qy	4621	TTGCATTTCTTATTTTCAAGCTTTGGAGAGAGTGAAGAGATCAAGCAATTTGGAGAACTGG	4680
Db	4621	TTGCATTTCTTATTTTCAAGCTTTGGAGAGAGTGAAGAGATCAAGCAATTTGGAGAACTGG	4680

Db 4621 TTGCAATCTTATTTTTCAGAGCTTGAGAGAGTGAGAGATCAAAGCAATTGGAGAACTGG 4680
Qy 4681 ATTTGCTGTTTATGCTCTGAGAAATGCTGCATTTTACACGAGCAAAAGCTGAAAAATGA 4740
Db 4681 ATTTGCTGTTTATGCTCTGAGAAATGCTGCATTTTACACGAGCAAAAGCTGAAAAATGA 4740
Qy 4741 ATAACTAACCCCTTTTCCCTGCTAGAAATACAAATTAGATGCCCAAGCGATTTTT 4797
Db 4741 ATAACTAACCCCTTTTCCCTGCTAGAAATACAAATTAGATGCCCAAGCGATTTTT 4797

RESULT 2
US-09-354-243B-25
; Sequence 25, Application US/09354243B
; Patent No. 6359117
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fa
; TITLE OF INVENTION: (T1F8)
; FILE OF INVENTION: The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.1
; CURRENT APPLICATION NUMBER: US/09/354,243B
; CURRENT FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 25
; LENGTH: 4797
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-09-354-243B-25

Query Match 100.0%; Score 4797; DB 3; Length 4797;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 4797; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGCAAGCAGAGATCTTTCAGAACAGGTTCTCTTCCCGAGTCACAGTTGCTCGAGTTAG 60
Db 1 TGCAAGCAGAGATCTTTCAGAACAGGTTCTCTTCCCGAGTCACAGTTGCTCGAGTTAG 60

Qy 61 AATTGCTGCAATGCGCGCCCTGCAGAAATCTGTAGCTCTTTCCTTATGGGGACCTGG 120
Db 61 AATTGCTGCAATGCGCGCCCTGCAGAAATCTGTAGCTCTTTCCTTATGGGGACCTGG 120

Qy 121 CCACAGCTGCTCTCTTCTTGGCCCTTCTGGTACAGGGAGGAGCAGCTGCGCCCATCA 180
Db 121 CCACAGCTGCTCTCTTCTTGGCCCTTCTGGTACAGGGAGGAGCAGCTGCGCCCATCA 180

Qy 181 GCTCCACTGAGGCTTGACAACTTCCAGAGCCCTATATCAACCAACCGACCT 240
Db 181 GCTCCACTGAGGCTTGACAACTTCCAGAGCCCTATATCAACCAACCGACCT 240

Qy 241 TCATGCTGGCTAAGGAGTATACATCTCAATCTGCTCTTCTGTTGGATCTACTTGA 300
Db 241 TCATGCTGGCTAAGGAGTATACATCTCAATCTGCTCTTCTGTTGGATCTACTTGA 300

Qy 301 ATCCAAATAGTTCTTAAACTTTTCTTACAGAGCATCTTAAGAGCTTTTAGGAACCCACTGT 360
Db 301 ATCCAAATAGTTCTTAAACTTTTCTTACAGAGCATCTTAAGAGCTTTTAGGAACCCACTGT 360

Qy 361 TTATCCCTGAGGCTAGATAAAATTTTCTGTTTTTTCAGAGCTCTTTTGGAAATCTGGCTTT 420
Db 361 TTATCCCTGAGGCTAGATAAAATTTTCTGTTTTTTCAGAGCTCTTTTGGAAATCTGGCTTT 420

Qy 421 TTTTCTTCTGAACTTCTCTTCCATTTTGGCCCTTTATGATACATATGATGAAATTTT 480
Db 421 TTTTCTTCTGAACTTCTCTTCCATTTTGGCCCTTTTATGATACATATGATGAAATTTT 480

Qy 481 CCCAAAGAGCGCCATTCAGTAATCCATCTGATGATTTTTTTTCTTTTATGCTCTG 540
Db 481 CCCAAAGAGCGCCATTCAGTAATCCATCTGATGATTTTTTTTCTTTTATGCTCTG 540

Db 481 CCCAAAGAGCGCCATTCAGTAATCCATCTGATGATTTTTTTTCTTTATGCTCTG 540
Qy 541 CATTTGTTCTAAATCTCATGACACATCTGAATTCCTGTTTTTAGTCTTTTATGATGTTGCTCT 600
Db 541 CATTTGTTCTAAATCTCATGACACATCTGAATTCCTGTTTTTAGTCTTTTATGATGTTGCTCT 600
Qy 601 GGGAGACGGGATGGGGACATGCTATATGATATAAATTTTTTTTTTCTATTTGCTCAATGTC 660
Db 601 GGGAGACGGGATGGGGACATGCTATATGATATAAATTTTTTTTTTCTATTTGCTCAATGTC 660
Qy 661 AGACCCCTTAGTCTTTTCTTCCAGGCTAGCTTGGCTGTGATAAACAACAGACGTTG 720
Db 661 AGACCCCTTAGTCTTTTCTTCCAGGCTAGCTTGGCTGTGATAAACAACAGACGTTG 720
Qy 721 TCTCATTTGGGAGAACTGTTCCACGGAGTCAGTGAAGCTACAGTTGTGACGAACAGGG 780
Db 721 TCTCATTTGGGAGAACTGTTCCACGGAGTCAGTGAAGCTACAGTTGTGACGAACAGGG 780
Qy 781 CCGTGTCCCTTCCATGCGGTACTTGGGGTGGTGTGATGATGGTTTAGGTCTTATCCCTTA 840
Db 781 CCGTGTCCCTTCCATGCGGTACTTGGGGTGGTGTGATGATGGTTTAGGTCTTATCCCTTA 840
Qy 841 TGACCCCTTTCTGTTTCCCTTCCACATGAGTGAGCGCTGCTATCTGATGAAGCAG 900
Db 841 TGACCCCTTTCTGTTTCCCTTCCACATGAGTGAGCGCTGCTATCTGATGAAGCAG 900
Qy 901 GTGCTGAACCTTCAACCTTTGAAGAGTCTGTTCCCTCAATCTGATAGTTTCCAGCCCTTAT 960
Db 901 GTGCTGAACCTTCAACCTTTGAAGAGTCTGTTCCCTCAATCTGATAGTTTCCAGCCCTTAT 960
Qy 961 ATGCAGAGGTGGTGGCCCTTCTGGCCAGGCTCAGCAACAGGCTTAAGCACATGTGTAAGT 1020
Db 961 ATGCAGAGGTGGTGGCCCTTCTGGCCAGGCTCAGCAACAGGCTTAAGCACATGTGTAAGT 1020
Qy 1021 TCAGCTCTCAGCCCTATGCCCACTACCCCTCTCTTCCCTTCCACAGAGACCCCTTAC 1080
Db 1021 TCAGCTCTCAGCCCTATGCCCACTACCCCTCTCTTCCCTTCCACAGAGACCCCTTAC 1080
Qy 1081 CCCAACTCTCTCTCTTCCCTTACCCCTAAGCTTAGCAGGAAGAGTGTCTTGGCAGCAG 1140
Db 1081 CCCAACTCTCTCTCTTCCCTTACCCCTAAGCTTAGCAGGAAGAGTGTCTTGGCAGCAG 1140
Qy 1141 TGTATCAGAGTCAATTTGGGATCATAGATATTTGCTTTTGTCTTTCACATGAGTCAATC 1200
Db 1141 TGTATCAGAGTCAATTTGGGATCATAGATATTTGCTTTTGTCTTTCACATGAGTCAATC 1200
Qy 1201 TTGAGTTTATAGTGGTGAATGGGGTCTGGAACTTAAAGTGTACAGAACCGCATTTGGTTG 1260
Db 1201 TTGAGTTTATAGTGGTGAATGGGGTCTGGAACTTAAAGTGTACAGAACCGCATTTGGTTG 1260
Qy 1261 TCITCGGAAAAAAGGCAACTCAGGTTGCGTAAGATGAGAAAGTGTGGGAAAAACATCTA 1320
Db 1261 TCITCGGAAAAAAGGCAACTCAGGTTGCGTAAGATGAGAAAGTGTGGGAAAAACATCTA 1320
Qy 1321 GCTGTGAAATGGATCCATTTGAGTCTAAAGTGTGAGGGAGGGGATGGCATGGAGAGAA 1380
Db 1321 GCTGTGAAATGGATCCATTTGAGTCTAAAGTGTGAGGGAGGGGATGGCATGGAGAGAA 1380
Qy 1381 ATTAGAAGAGAAAGTGGGAAATGGGAAAGGCTTAAAGTCGTTGGTGGGTCGCGACATGTT 1440
Db 1381 ATTAGAAGAGAAAGTGGGAAATGGGAAAGGCTTAAAGTCGTTGGTGGGTCGCGACATGTT 1440
Qy 1441 GCCCTGTTGATGTCATGGGAAGCCACAATAATCGAGGGGTGTGAATCTGATGCCGCTGAA 1500
Db 1441 GCCCTGTTGATGTCATGGGAAGCCACAATAATCGAGGGGTGTGAATCTGATGCCGCTGAA 1500
Qy 1501 CATTTGAAATCTATCAAAAAGTTTGTAGTGAGTGGGCCCAAGTAAAGGCCCTTAGACTT 1560
Db 1501 CATTTGAAATCTATCAAAAAGTTTGTAGTGAGTGGGCCCAAGTAAAGGCCCTTAGACTT 1560
Qy 1561 ACTGAAGAGGGCTTAAATTTTTTTCACATGAGATGTTTTTATGATCTTCTTGTCTTAAGCATG 1620
Db 1561 ACTGAAGAGGGCTTAAATTTTTTTCACATGAGATGTTTTTATGATCTTCTTGTCTTAAGCATG 1620

Db 3781 TTCACTTGAATTTGGGTTCTCTTCGATTAAAGTTTGGGATCCCTCATCTGCAATTTGACTT 3840
Qy 3841 GGAGAGAAAGAAATGAATGTAGGACTATATCTGGTTCTTCTAATTAACATAAGCAAGTG 3900
Db 3841 GGAGAGAAAGAAATGAATGTAGGACTATATCTGGTTCTTCTAATTAACATAAGCAAGTG 3900
Qy 3901 GAAAGAGCTTATTTGGTATTTTCCCAAAAGTGAAGAACTTTTCTTTACTGTGTGCA 3960
Db 3901 GAAAGAGCTTATTTGGTATTTTCCCAAAAGTGAAGAACTTTTCTTTACTGTGTGCA 3960
Qy 3961 AAAAGGTGGAATAGAAAAAGCCCTTAATGTATTGGTGAATACATGTTTCAAAAGTCATTG 4020
Db 3961 AAAAGGTGGAATAGAAAAAGCCCTTAATGTATTGGTGAATACATGTTTCAAAAGTCATTG 4020
Qy 4021 AGTAGAGATGTTTAAATCAGGAGTGCCCAATCAATTTGGCTTCCCTGGACCACTTGAAA 4080
Db 4021 AGTAGAGATGTTTAAATCAGGAGTGCCCAATCAATTTGGCTTCCCTGGACCACTTGAAA 4080
Qy 4081 GAATTTGCTTGGTACACATATAAATAACAAGCAATAGCTGATGAGCTAAAAAGTCCA 4140
Db 4081 GAATTTGCTTGGTACACATATAAATAACAAGCAATAGCTGATGAGCTAAAAAGTCCA 4140
Qy 4141 TGCATAAATCTCATATCTGTTTAAAGAAAGTTTATCAATTTCTGTTAGGGTGCAATTCAAAG 4200
Db 4141 TGCATAAATCTCATATCTGTTTAAAGAAAGTTTATCAATTTCTGTTAGGGTGCAATTCAAAG 4200
Qy 4201 CTGTCTTGGGCCATGTGGGGCTGTGGGCTGCAGGTTGGACAAGCTCCTTATAAGTAATC 4260
Db 4201 CTGTCTTGGGCCATGTGGGGCTGTGGGCTGCAGGTTGGACAAGCTCCTTATAAGTAATC 4260
Qy 4261 TGTCAATAGATGTTTGGAGCTGCAAAACAGCCCAAGCAATAGGGTGGCACTCGGGAT 4320
Db 4261 TGTCAATAGATGTTTGGAGCTGCAAAACAGCCCAAGCAATAGGGTGGCACTCGGGAT 4320
Qy 4321 CCCCAGATCCAGCTCACTTCAGTCTCTTGTCTGCTTGAAGAGGGTGGTCAATC 4380
Db 4321 CCCCAGATCCAGCTCACTTCAGTCTCTTGTCTGCTTGAAGAGGGTGGTCAATC 4380
Qy 4381 TCTGCCAGCTTTTAAACAGCTTCATTAAGTGTAGGTTGACCTGAATTTGATGCTGCTG 4440
Db 4381 TCTGCCAGCTTTTAAACAGCTTCATTAAGTGTAGGTTGACCTGAATTTGATGCTGCTG 4440
Qy 4441 GTGGCTCTCAGTCCAGAGCGCTCAATTTAAAGCTTTTGGCAAACTCATACATACTAA 4500
Db 4441 GTGGCTCTCAGTCCAGAGCGCTCAATTTAAAGCTTTTGGCAAACTCATACATACTAA 4500
Qy 4501 AGGGATATTACTGAATGTTTAAATGCTTAAATCTCGGTTTCTGCTCCATCAACC 4560
Db 4501 AGGGATATTACTGAATGTTTAAATGCTTAAATCTCGGTTTCTGCTCCATCAACC 4560
Qy 4561 TAATCTGCAATTTCTAATTTGTTCACTTTAGAAAAGATGGGATAAATGCTCAATACTT 4620
Db 4561 TAATCTGCAATTTCTAATTTGTTCACTTTAGAAAAGATGGGATAAATGCTCAATACTT 4620
Qy 4621 TTGCAATCTTATTTTCAAGCTTGGAGAGTGGAGGATCAAGCAATTTGGAGACTGG 4680
Db 4621 TTGCAATCTTATTTTCAAGCTTGGAGAGTGGAGGATCAAGCAATTTGGAGACTGG 4680
Qy 4681 ATTTGCTGTTTATGCTCTGGAATGCTTGAATTTGACAGAGCAAAAGCTGAAAAATGA 4740
Db 4681 ATTTGCTGTTTATGCTCTGGAATGCTTGAATTTGACAGAGCAAAAGCTGAAAAATGA 4740
Qy 4741 ATAACATAACCCCTTCCCTGCTAGAAAATAACAATTAGATGCCCAAGCGATTTT 4797
Db 4741 ATAACATAACCCCTTCCCTGCTAGAAAATAACAATTAGATGCCCAAGCGATTTT 4797

RESULT 3
US-09-949-016-17185
; Sequence 17185, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 17185
; LENGTH: 8888
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-17185

Query Match 98.8%; Score 4738.6; DB 3; Length 8888;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 4774; Conservative 0; Mismatches 4; Indels 3; Gaps 3;

Qy 20 GAACAGGTTCTCTTCCCTCCCAAGTCCACAGTTGCTCGAGTTAGAAATGTCGCAATGGCGC 79
Db 2107 GACCAGGTTCTCTTCCCTCCCAAGTCCACAGTTGCTCGAGTTAGAAATGTCGCAATGGCGC 2166
Qy 80 CTTGCAGAAATCTGTAGCTCTTCTTATGGGACCTGGCCACAGCTGCCTCTTCT 139
Db 2167 CTTGCAGAAATCTGTAGCTCTTCTTATGGGACCTGGCCACAGCTGCCTCTTCT 2226
Qy 140 CTTGGCCCTCTTGTGTCAGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGA 199
Db 2227 CTTGGCCCTCTTGTGTCAGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGA 2286
Qy 200 CAAGTCCAACTTCAGAGCCCTTATATCAACACCGCACCTTCAATGCTGGTAAAGAGGT 259
Db 2287 CAAGTCCAACTTCAGAGCCCTTATATCAACACCGCACCTTCAATGCTGGTAAAGAGGT 2346
Qy 260 ATACATCTCAATCTGCTCTTCTGTTGATCTACTTGGAAATCCAAATAGTTCTTAAAC 319
Db 2347 ATACATCTCAATCTGCTCTTCTGTTGATCTACTTGGAAATCCAAATAGTTCTTAAAC 2406
Qy 320 TTTTCTTCAGAGCATCTTAAGAGCTTTTAGGAACCCACTGTTTATCCTGAGGGTAGATA 379
Db 2407 TTTTCTTCAGAGCATCTTAAGAGCTTTTAGGAACCCACTGTTTATCCTGAGGGTAGATA 2466
Qy 380 AATTTTCTGTTTTTTCAGAGACTCTTTGGGAATCTGGC-TTTTTTTTTTTTCTTGAACCTC 438
Db 2467 AATTTTCTGTTTTTTCAGAGACTCTTTGGGAATCTGGCCTTTTTTTTTTTTCTTGAACCTC 2526
Qy 439 TTCTTTCATTTTGGCCCTTTATGATACATATGATGAATTTTCCCAAGAGCGGCCATTC 498
Db 2527 TTCTTTCATTTTGGCCCTTTATGATACATATGATGAATTTTCCCAAGAGCGGCCATTC 2586
Qy 499 AGTAATCCATCTGATGA-TTTTTTTTTTCTTTATGCTCTGTCATGCTTCTTAACTCAT 557
Db 2587 AGTAATCCATCTGATGAATTTTTTTTTTCTTTATGCTCTGTCATGCTTCTTAACTCAT 2646
Qy 558 GCACACATCTGAATTTCTGCTTTTATGATGTTTGTCTCTGGGGAGACGGGATGGG 617
Db 2647 GCACACATCTGAATTTCTGCTTTTATGATGTTTGTCTCTGGGGAGACGGGATGGG 2706
Qy 618 CACATGCTATGATAAATTTTTTTTTTCTTATTTGCTCAATGTCAGACCTTAGTCTTTTC 677
Db 2707 CACATGCTATGATAAATTTTTTTTTTCTTATTTGCTCAATGTCAGACCTTAGTCTTTTC 2766
Qy 678 TTCTCTTCCAGCTAGCTTGGCTGATACACACAGAGCTTCTGCTCTCAATTTGGGGAGAAAC 737
Db 2767 TTCTCTTCCAGCTAGCTTGGCTGATACACACAGAGCTTCTGCTCTCAATTTGGGGAGAAAC 2826
Qy 738 TGTTCACGGAGTCAGTGAAGCTACAGTTGTGAGCAACAGGGCCGTGTGCGCTCCATGG 797

QY 2957 AATACTCAGAAACATGAAGCTCCAGTTCATGGAATTTTCAGTAACAAGCTTAACCTTA 3016
Db |||||
QY 5047 AATACTCAGAAACATGAAGCTCCAGTTCATGGAATTTTCAGTAACAAGCTTAACCTTA 5106
Db |||||
QY 3017 ATTCCCCCTTTTCCCTCTTGACCTTTTAAAGAGCGTTCTTCTCCTGAGCATCATTTAAT 3076
Db |||||
QY 5107 ATTCCCCCTTTTCCCTCTTGACCTTTTAAAGAGCGTTCTTCTCCTGAGCATCATTTAAT 5166
QY 3077 GAGTGTGACTGTTTCTTCTTTTGATTAATGTGAAGCTTTGTAGTTTAAATTTGGAAGCCC 3136
Db |||||
QY 5167 GAGTGTGACTGTTTCTTCCCTTGATAATTTGAAGCTTTGTAGTTTAAATTTGGAAGCCC 5226
QY 3137 AGTTCTCTTGTTTATAGAACTATTTCTAGACATGAGGCGTGAATGTTAGCATGCCACAG 3196
Db |||||
QY 5227 AGTTCTCTTGTTATAGAACTATTTCTAGACATGAGGCGTGAATGTTAGCATGCCACAG 5286
QY 3197 ACAAGGCATGCTTTTACATCTTCTTAAAGAAATTAAGTATTTTCTGCTTCTTGTCT 3256
Db |||||
QY 5287 ACAAGGCATGCTTTTACATCTTCTTAAAGAAATTAAGTATTTTCTGCTTCTTGTCT 5346
QY 3257 TTAGAAAGTGAAGTGTGAGAGAGAGAACTCTCATGTTGATCTGTGTGATTTTCAAGACC 3316
Db |||||
QY 5347 TTAGAAAGTGAAGTGTGAGAGAGAGAACTCTCATGTTGATCTGTGTGATTTTCAAGACC 5406
QY 3317 TTTAATCCATTTTGAAGAAATCAATTTTCAATTTTGCATGCGTGGTGGAGAGTG 3376
Db |||||
QY 5407 TTTAATCCATTTTGAAGAAATCAATTTTCAATTTTGCATGCGTGGTGGAGAGTG 5466
QY 3377 ATTTATGCTTTTCTGCTAGCTTTCAGAAAGCAGAGGAGAGCAATGTTTTCAGAG 3436
Db |||||
QY 5467 ATTTATGCTTTTCTGCTAGCTTTCAGAAAGCAGAGGAGAGCAATGTTTTCAGAG 5526
QY 3437 AAAGATCAACAGGAGGAGAACTGTCTGAGAGCTGTCTGAAATPAGGTTGGTGGAGGCA 3496
Db |||||
QY 5527 AAAGATCAACAGGAGGAGAACTGTCTGAGAGCTGTCTGAAATPAGGTTGGTGGAGGCA 5586
QY 3497 TTAATTCCTCTCGTTGGGGTAAAGCAGAACCGAGTGGTAGTAAATGCAATGACAG 3556
Db |||||
QY 5587 TTAATTCCTCTCGTTGGGGTAAAGCAGAACCGAGTGGTAGTAAATGCAATGACAG 5646
QY 3557 ACAGTAGGGGACGATAAATCTTAAATCTTTATAGTCTGAGTCTTTGAGATAGAAA 3616
Db |||||
QY 5647 ACAGTAGGGGACGATAAATCTTAAATCTTTATAGTCTTCTGAGTCTTTGAGATAGAAA 5706
QY 3617 GAATATCTTTTGGCTTATGTCAAAAGAGATGGAAGAGTGAAAGCGCGGAAGAACG 3676
Db |||||
QY 5707 GAATATCTTTTGGCTTATGTCAAAAGAGATGGAAGAGTGAAAGCGCGGAAGAACG 5766
QY 3677 AGGAAAAGAGAACCATGTATATATAGAGGACAAATGTTGACAGGTTTCTTGAAT 3736
Db |||||
QY 5767 AGGAAAAGAGAACCATGTATATATAGAGGACAAATGTTGACAGGTTTCTTGAAT 5826
QY 3737 AATGCAAAATATGATAGATTAGAGGAATTTTCAGTAGGGAATGCTTTTCACTTGAATTTGGG 3796
Db |||||
QY 5827 AATGCAAAATATGATAGATTAGAGGAATTTTCAGTAGGGAATGCTTTTCACTTGAATTTGGG 5886
QY 3797 TTTTCTCTTTCGATTAAAGTTTGGATTCCTCATCTGCAATTTGACTTGGAGAGAGAAAGATG 3856
Db |||||
QY 5887 TTTTCTCTTTCGATTAAAGTTTGGATTCCTCATCTGCAATTTGACTTGGAGAGAGAAAGATG 5946
QY 3857 AATGTTAGACCTATATCTGTTTCTATTAACCTAAGCAAGTGGAAAGACTTATTTGG 3916
Db |||||
QY 5947 AATGTTAGACCTATATCTGTTTCTATTAACCTAAGCAAGTGGAAAGACTTATTTGG 6006
QY 3917 TATTTTTCCCAAAAGTGAAACCTTTTCTTTTCTGTTTCAAAAAGTGGAAATAGA 3976
Db |||||
QY 6007 TATTTTTCCCAAAAGTGAAACCTTTTCTTTTCTGTTTCAAAAAGTGGAAATAGA 6066
QY 3977 AAAAGCCTTAATGTTTGGTGAATACATGTTTCAAAGTCATTTGAGTAGAGATGTTTTAA 4036
Db |||||
QY 6067 AAAAGCCTTAATGTTTGGTGAATACATGTTTCAAAGTCATTTGAGTAGAGATGTTTTAA 6126

QY 4037 ATCAGGAGTGTCCAATCATTTGGCTTCCCTGGACCACTTTGAAAGAAATGCTCTTGGTACA 4096
Db |||||
QY 6127 ATCAGGAGTGTCCAATCATTTGGCTTCCCTGGACCACTTTGAAAGAAATGCTCTTGGTACA 6186
Db |||||
QY 4097 CACATAAAATACAAGAACATAGCTCATGAGCTAAAAAGTCCATGCATAAATCTCATAC 4156
Db |||||
QY 6187 CACATAAAATACAAGAACATAGCTCATGAGCTAAAAAGTCCATGCATAAATCTCATAC 6246
QY 4157 TGTTTTAAAGAAAGTTTATGAATTTCTGTTAGGGTGCATTCAAAAGCTGCTCCTGGGCCATGT 4216
Db |||||
QY 6247 TGTTTTAAAGAAAGTTTATGAATTTCTGTTAGGGTGCATTCAAAAGCTGCTCCTGGGCCATGT 6306
QY 4217 GCGCCCTGTGGGCTGCAGGTTGGACAAAGCTCCTTATAAGTAAATCTGTGCATAGATAGTTT 4276
Db |||||
QY 6307 GCGCCCTGTGGGCTGCAGGTTGGACAAAGCTCCTTATAAGTAAATCTGTGCATAGATAGTTT 6366
QY 4277 GAGCTGTCAAAAACAGGCCAAGGCATTAATGGGTGGCACTCGGGATCCCCAGATCCCCAGCC 4336
Db |||||
QY 6367 GAGCTGTCAAAAACAGGCCAAGGCATTAATGGGTGGCACTCGGGATCCCCAGATCCCCAGCC 6426
QY 4337 TCACCTTCAGTCTCCTTCTGCTTAAAGAGGGTGGTCAACTCTCTGCCCCAGCTTTTAA 4396
Db |||||
QY 6427 TCACCTTCAGTCTCCTTCTGCTTAAAGAGGGTGGTCAACTCTCTGCCCCAGCTTTTAA 6486
QY 4397 ACAGCTTCATTAGTGTGAGGTGCACCTGAAATTTGATGCCCTGCTGGTGGCCCTCTCAGTCCA 4456
Db |||||
QY 6487 ACAGCTTCATTAGTGTGAGGTGCACCTGAAATTTGATGCCCTGCTGGTGGCCCTCTCAGTCCA 6546
QY 4457 GAGAGCGCTCATTTTAAAGCTTTTGGCAATCATACAAATCTAAGGGATATTTACTATGA 4516
Db |||||
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QY 4517 ATGTTTTACAAATGCTTTAAACCTCGGTTCTGCTCTCCATCAACCTAATCTTTGCAATTTCT 4576
Db |||||
QY 6607 ATGTTTTACAAATGCTTTAAACCTCGGTTCTGCTCTCCATCAACCTAATCTTTGCAATTTCT 6666
QY 4577 AATTTGTTCACTTTAGAAAAACATGGCATAAATGCTCAAAATCTTTTGCATTTCTTATTTTC 4636
Db |||||
QY 6667 AATTTGTTCACTTTAGAAAAACATGGCATAAATGCTCAAAATCTTTTGCATTTCTTATTTTC 6726
QY 4637 ACAGCTTGGAGAGAGTGGAGAGATCAAGCAATTTGGAGAACTGGATTTGCTGTTTATGTC 4696
Db |||||
QY 6727 ACAGCTTGGAGAGAGTGGAGAGATCAAGCAATTTGGAGAACTGGATTTGCTGTTTATGTC 6786
QY 4697 TCTGAGAAATGCTGCAATTTGACCAGAGCAAGCTGAAAAATGAATAACCTAACCCCTTTT 4756
Db |||||
QY 6787 TCTGAGAAATGCTGCAATTTGACCAGAGCAAGCTGAAAAATGAATAACCTAACCCCTTTT 6846
QY 4757 CCCTGCTAGAAATAACAAATTAGATGCCCCCAAGCGATTTTTT 4797
Db |||||
QY 6847 CCCTGCTAGAAATAACAAATTAGATGCCCCCAAGCGATTTTTT 6887
Db |||||
RESULT 4
US-09-178-973B-8
; Sequence 8, Application US/09178973B
; Patent No. 6274710
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: (TIFs)
; FILE REFERENCE: LUD 5543
; CURRENT APPLICATION NUMBER: US/09/178,973B
; CURRENT FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 17
; SEQ ID NO 8
; LENGTH: 7445
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-178-973B-8

Query Match	14.3%;	Score 686;	DB 3;	Length 7445;
Best Local Similarity	53.8%;	Pred. No. 1.8e-181;		
Matches 2644;	Conservative 0;	Mismatches 1875;	Indels 393;	Gaps 44;

QY	29	CTCCTTCCCAGTCACCAAGTTGCTCGAGTTAGAAATTCTGCAATGCGCGCTCGACGAA	88
DB	2034	CTCTCCTCTCACCTTATCAACTGTTTGACACTGTGTCGATCTCTGATGGCTGTCTGCGAA	2093
QY	89	ATCTGTGAGCTCTTTCTCTTATGGGGACCTTGGCCACCAGCTGCCCTCTCTCTCTTGGCGCCT	148
DB	2094	ATCTAGAGTTTTCCTTATGAGGACTTTGGCCGCCAGCTGCTGCTTCTCATTTGCGCT	2153
QY	149	CTTGGTACAGGGAGAGAGCTGCGCCATCAGCTCCCATCTGCAAGTTGCAAGTCCAA	208
DB	2154	GTGGGCCCAGGAGGCAATGCGCTGCCCGTCAACACCGCGGTGCAAGCTTGAGGTGTCAA	2213
QY	209	CTTCCAGACGCCCTATATCACCAACCGACCTTCATCTGGCTGAAGAGGTATACATCTC	268
DB	2214	CTTCCAGACGCCGACATCGTCAACCGACCTTTATCTGGCCAAAGAGGTACAGTGC6CA	2273
QY	269	AATCCTCTCTTTCTCGTTGGATCTACTTGGAAATCCAAATAGTTCTTTAAACTTTTCTTCA	328
DB	2274	TCCTTTCTCTCCATACGCCCTTGCCATTTTCTCTGAAGCACTTGCAAACTCTTTAGGG	2333
QY	329	GAGCATCTCTAAGAGCTTTAGGAACCAACTGTTTATCCCTGAGGGTAGATAAAATTTTCTG	388
DB	2334	CGCTTTATCTCGGAGTCTCACTAACCTATGTTT-----TCTGTCTCTTTAGAG	2382
QY	389	TTTTTTCAGAGACTCTTTGGGAATCTGGCTTTTTTTTTTTTCTTGAACTTCTCTCTCCAT	448
DB	2383	ACTCTTTAAGAGACTGGGTCTTTTTTCTATTCTATTTCGAAGTCTCTCAGGACCATTTCTCAT	2442
QY	449	TTTGGCCTTTATGATACATATGATGAATTTTTCCCAAAGAGCGGCCAATCAGTAATCCAT	508
DB	2443	CTTGGCCTTCAGGACACATATCTGAATTTTATCTACAGAGGCGCAATTT--AGAAAGCCA	2500
QY	509	CTGATGATTTTTTTTTTCTTTATGCCCTCTGTGCAATGTTCTTAAACTCATGCACACATCTG	568
DB	2501	CCCAGACTGCAATACITTCATTTCTCTGTGCTCTCTCTGAACTCATACTCTCTTGGC	2560
QY	569	AATTCTGCTTTTAGTCTTTTATGATGTGCTCTGGGAGAGCGGATGGGGCACTGTCTAT	628
DB	2561	TACTC-----CTGAGACCCACTCGGACATACATCTCTAC	2595
QY	629	GTATAAATTTTTTTCTATTGTCTCATGTGCGACCTTAGTCTTTTCTCTCTCTCCAG	688
DB	2596	TTACAGGCTTTTCTTCCATCTCTTGTGACCCAGGCATCTAGGGTTTC-TCTCTTTTCAG	2654
QY	689	GCTAGCTTGGCTGATACAAACACAGAGCTTTCGTCTCATTGGGAGAACTGTTTCCACGGA	748
DB	2655	GCCAGCCTTCAGATACACACAGAGCTCGGCTCATCGGGGAGAACTGTTCCGAGGA	2714
QY	749	GTCAGTGTAAGCTACAGTTGTGACGAAACAGGCGCGTGTGCCGTCCATGGGTACTTGGGT	808
DB	2715	GTCAGTGTAAGTCTCTACTGTGATGACAGGCG-----TAGCTGGGGAGCT	2761
QY	809	GGTGGTGATGATGGTTTAGTCTTATCCCTTATGACCCCTTCTGTTTCCCTCCACCTGC	868
DB	2762	GGTGGACCCCTCTGGGATAG-----TCTGACGTATGACCCCTGCTTCTTGTCTACCTGC	2817
QY	869	AGATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGTGAACTTCACCTTTGAAGAAGTGC	928
DB	2818	AGGCTAAGATCAGTGCTACCTGATGAAGCAGGTGCTCACTTCACCTCGAAGACGTTCT	2877
QY	929	TGTTCCCTCAATCTGATAGGTTCCAGCCTTATATGCAAGGAGGTGGTGCCCTTCTTGCCCA	988
DB	2878	TGCTCCCCCAGTCAGACAGGTTCCAGGCCCTACATGCAAGGAGGTGATACCTTCTCTGACCA	2937
QY	989	GGCTCAGCAACGGCTAAGCACATGTGTAGTTTCAGCTCTCAGCCTATGCGCACCTACCC	1048
DB	2938	AACCTCAGCAATCAGCTCAGCTCCTGTGTAGTCTGACTCTGGGTACCTATGTGCTCTCTCT	2997

[illegible]

Db	4051	TTTCTCTGCTCCCGAGTCCCTTCTACCTTTGTAACATTTTATTGGACTTGTCTACTATCTG	4110	Db	5101	GTGCTCTGCCAGTCTTCTTTTAGAG--GGTTTGTGTACCTTGACACCTGGGCTTGAGATTTA	5158
Qy	2121	GGCGATTA---CPTTGGTGTCTGTGTATGTAGATATATCTATATATCTAGATGTCACTT	2176	Qy	3186	GCATGCCACAGACAAGGCATGCTTTACACATCTTGTCTTAAAAATTTACTCATTTCACTTT	3245
Db	4111	GTCCATTACTCGCTTAGCTGCACCTGTATCTAGCTGGGTCTATAGATCTTTCAATCTGTG	4170	Db	5159	GCATGCCAAAGGCACACACTTCTGAATTCCTGTGTAAAGGTTATTATTCACTTACT---	5215
Qy	2177	TCCAAATCTTGCAAAATTGTAGAAATCTAGAACTCGTGGTGGGATCTTAGCTTGTCTAGTCA	2236	Qy	3246	GCCTTGTGTCTTTAGAAAAGTGAAGTGTGAGAGGAGAAATCTCATGGTGA-----	3296
Db	4171	TCTAAATTT---GTAAGTCAAAATCTGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTC	4227	Db	5216	-----TTGTCTTTGGAAAGGTGAAGCGTGTGTGAGAAAGAACTCACAGGAGATGTGTCT	5270
Qy	2237	ATACCTCAGATTTCTGGGGATGTCAGTGGCAGAGATAGGCTAGATGCGAGTCTCCTG	2296	Qy	3297	-----TCTGTGTGAATTTTCAAGACTTTTAAAGCTTTTAAATCCATTTTGAAGAATACTT	3342
Db	4228	ATGAGCACTTGCTCGGAGGATGGCTGTGACAGAGTCAATGCTAGAGACAGACATCCCTG	4287	Db	5271	CTGTAGSAAAACTTTTTTTTTCCCTTTAAATGCTATAATCCACTTTTCAGTCAAC---TT	5327
Qy	2297	AATCCCAAGCCAGCACATTTTCCCGGTGTGTATACAGATATAGTTTGGTACCAATTAATCT	2356	Qy	3343	TCATATTTGCAATGGGTGCCATGTGGAAGAGTGAATATCTTTTGTCTGTGTAGCTTCA	3402
Db	4288	ATTTCCAGCTCTGCAC--TTGCCTAGTGGCCATGTAAATTAATTTTGGCTTGATTAAGTAT	4346	Db	5328	TGACTTTTATACCATGCTGTCACTGAAGAGAGTGTTTAGCCCGCTCTCATGGCTCTGGG	5387
Qy	2357	TAGGGAATTTCAGATCTTATGACTCATGTAAATCTGAAGAAGTACTTGTTTAAAAACA	2416	Qy	3403	GAAAGCA-CAGGAGGAGAGCAATTTGTTTCAAGAAAAGATCAACAGGAGGAGAAAATCTGT	3461
Db	4347	TTGGGAAA--GCCAGTTCCCAACCGACCTACATAATCTGAAGAACCATGCAATTGAATACTA	4404	Db	5388	AAAAGCAACCAATAGGGGAGGAATGTATGCTGAGAAATCTGACCCGACAGGAACTGGT	5447
Qy	2417	GAAAAATCCCTATGSGCAATTTTATTTGAAGTCAATTTTGAAGTCAATTAATGCAATTCCTT	2476	Qy	3462	CAGAGCTGTCTGAAATAGGGTGTGTTTGGAGGCAATTAATTCCTCTCTGTTGGGGGTAAA	3521
Db	4405	GA---GCTGGGACAAACTTACTAGAGATGAATTTTGGACTCATTTAAACGGATGCTC	4460	Db	5448	CAGAGCTCCCCGGAAGACCA-----CCACAGGTGTTAAGTAGG	5485
Qy	2477	TGAACTTTGGAAGATTAACCTCAGAACAAATGAGAAAAGAGCTGGACTTGCATATAGGGCT	2536	Qy	3522	AGCAGAACGCAAGTGTGTAGTAAAT--GCATGACAGACAGTAGGGGAGATAAACTTTAA	3580
Db	4461	TGAAATGTGGCAAAATCAACCCAGAAATAACAACAAAGAGCTGGATTGCAATAGGACA	4520	Db	5486	AACAGTCCAGGGTGGGCTCATGTAATAGATGGAACAGAGCGAGGAGATTAAGCTCAAA	5545
Qy	2537	AATTTCTGGA-----GTAATAACACTTAATTTTGAATATCAATATCTATCAGATA	2589	Qy	3581	AATCTTTTATAGTCTTGGAGTCTTTGAGATGAAAAAGAAATATCTTTTGGCTTTATGTCA	3640
Db	4521	AGTATTTAGAAATCACTGTGTATTAATAGCTATCATCTTAAATTTAAAAATATAGGGCTATATA	4580	Db	5546	AGTTTCAATAGGTC-CGAGTCTTAAAGATACAAAATAGCTGC--TTGGGCTTCAATA	5602
Qy	2590	TTGATTAATGTTTAAAGCAAGACAGACAAC--CCGATCTCTTTTATACAGGTTTCAAT	2648	Qy	3641	AAAGAAGTATGGAAGG-----TGAAGGGCGGAAGAAAGCAGAGAAAGGAAG	3688
Db	4581	TATATTTAAGAAATTAACAACAGAGTGGATAGCTCCCAATTTACTTTGGCTTGGTTTCAA	4640	Db	5603	AAGGAAGTCTGGGAAGGCAGCAGTAGAGAGGAAATGMAAGGGAAGAAAACAGAAATGTAG	5662
Qy	2649	AGAGTAAATATTTAGTAAGAGATTTATATAGTTAAATGGAAGTCTGAAATGGTAAGCT	2708	Qy	3689	AACCATGTATATATAGAGCAATGTGTGACAGGTTTCTTGAATTTTCTGAAATATGCAATATG	3748
Db	4641	AGAGTAAATATCAGTCAATGATTAATATATAGTCTATGAAGTATGAGATGGAACCC	4700	Db	5663	AGGACTTTGAACAGCTACAAATCTCTACCAAGCAATTTTCTTGGAAACATCTAGAAGGT	5722
Qy	2709	TTTTTTTCTCCTCTCTCCCAACAGACCTTCCATCTAGTTTCTTCTTCACTCCCTCA	2768	Qy	3749	ATCATTTAGAGGAATTTTCAATGAGGAATGCTTTTCACTTGAATTTTGGGTTTCTCTCT--T	3805
Db	4701	TTTCTTACTTTTACCTTCA-----TTTCTTAGTTTTTTTTTTCTTCCACCCCTGA	4752	Db	5723	AGTGATTTAGTGATTTGACGGGAGACTTGTCTTGCCATTTGAACTCGGTTTTTGTCTCT	5782
Qy	2769	ACAAATCCCTAGGAGCAATTTATCCATGTGGCTGGGTGATCATTTCTATAGTGAATGAT	2828	Qy	3806	CGATTAAGTTTGGGATCTCATCTGCAATTTGACT----TGGAGAGAGAAAGAAATGAATGT	3861
Db	4753	TCAAGCCACTAGTAAGCACCTATCTGTGTGAGCTATTAATATGACTTTACAGCAACAA	4812	Db	5783	CCATTTGAGTTTGAAGCGTCAACCCTTTTACCTCGAATGGAGGAGGAAAGAGGGGTGT	5842
Qy	2829	ACCATCATGTGGCTTATTTGGTGAAGAAACA--ACAATGGAAGCTTTAGACTAACATA	2886	Qy	3862	TAGGACCTATATCTGGTTTTCTATTAACAAAGCAAGTGGAAAGAGACTTATTTGGTATTT	3921
Db	4813	ATTGCTGTGTGGCTCTTTTGGGAAGGGAACAGGATAGCAGAGGCTCAGGCTAGCAAGT	4872	Db	5843	TATGACTCTTACCTGGAGTTTTTACTAGTTTACGCAATGGAACAGACACTCGGAGCTCT	5902
Qy	2887	GTGACTCACCCCAAAACCGGAGGAATGATTTAGGAGCAGTGAAGTGAAGCTCTT--GCAAG	2945	Qy	3922	TTCCCAAAAAGTGAATACTTTCTTTTACTTGTGTGTCATAAAAGGTGGAAATAGAAAAG	3981
Db	4873	CTGACTTGGCTTAAAGCCAGAGGCAATGTTGATAGCAGAGAAAGTGAAGGCTCTTCGCAAG	4932	Db	5903	CTTGACAAAAAATAGAAACCTGTTGTTGCTCTTGTGTTGTTCTTTGTTTGAAGAACAC	5962
Qy	2946	CAGGTACAACATAACTCAGAAACATGAAGGCTCAGTTGATGAAATTTTTCAGTAAACA	3005	Qy	3982	CTTTAATGTAATGGTGAATACATGTTCAAAGTCAATTTGATGATAGATGTTTAAATCAG	4041
Db	4933	TGGGTGTGTTAAGTAAACAGAAAACAGGAAGGCTCCGGTTGATGAAATATCAGTAAAT	4992	Db	5963	AGGCAAGCCCGCACCATGGGTTGAATGTGGGTCTTTTGAAGTCAAGGCTTTTGTAGTTGAG	6022
Qy	3006	GCTTAACCTTAATTCCTCTTTTCCCTCTTGGACTTTTAAAAAGCCGTTTCTTCTCGAG	3065	Qy	4042	GAGTGTCCAATCATTTTGGCTTCCCTGGACCCTTTGAAAGAAATTTGCTTTGTGTACACAT	4101
Db	4993	ATCTACCTTATCTCTTCTATCGAAC-----TAAATCGTCTCTTTTCTTGTG	5042	Db	6023	CACATCAATAGTT-----GATCATGTGTCAGTGGAGGCG	6058
Qy	3066	CATCATTTAATGAGTGTGACTGTTTCTTCTTTTGAATAATGAAGGCTTTGTAGTTTAA	3125	Qy	4102	AAAAATACAAGAACAAATAGCTGATGAGCTTAAAAAAGTCCATGCATAAAATCTCATACTGTTT	4161
Db	5043	TGTAGGCTGATAAACACACTTGT--TTCTTTTGTAGTGTTCATGGCTTTGTAGATTTTAA	5100	Db	6059	TACCTGTGAGCCGAGCCCTGCTGGCTTCGCATTAACATCTCCAGGCTCTCAGTATCACT	6118
Qy	3126	TTGTGAAGCCAGTCTCTTGTATAGAACTAATTAATAGACATGAGGCGCTGAATGTTA	3185	Qy	4162	TAAGAAAGTTTATGAATTTCTGTAGGGTGCATTAAGAGCTGTCTCTGGGCCAATGTGCGGC	4221
				Db	6119	TCCTGTACTTTTACACAGTTAGGAGTTGAGCAAACTTTTTTTTTC-----	6163

QY 1162 ATCATAGAGTATTTGCTTTGCTTGAAGTCTGAGTACACATCTTGAGTTTATAGTGGTGAATG 1221
DB |||||
QY 3118 TTCAATTGAGTAATACCTTTGAGTTTGTATGAGTGAAGCTTTATTTGTTTATTCATGGAA 3177
DB |||||
QY 1222 GGGTCTCGAACTTTAAGTGTACAGAAAGCGCATTTGGTTTGTCTTCGGAAAAAGCAACTC 1281
DB |||||
QY 3178 AGAAATCAACTCAAAATCTGTAGGATGAGAAGATGTTGGGAACGAAAAAGGCTTAGAT 3237
DB |||||
QY 1282 A-----GGTTGCGTGAAGTGAAGAAAGGTGTTGG 1309
DB |||||
QY 3238 AGAGAAACAGATCTGCTGAGTATAGTACTTATGCGGGGAGCAGGGCGGATATCCACTGA 3297
DB |||||
QY 1310 GAAACATCTAGCTGTGGAATGATCCATTTGAGTCTTAAGTTGTTGAGGGGAGGGGATGG 1369
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DB |||||
QY 1370 CATGGAGAGAAATPAGAAGAGAAAGTGGGAAATGGGAAGGCTTAAA----- 1415
DB |||||
QY 3358 CACTGAGTACNAGTACTTTGGGGGGAGGNAITGGCACAGACAAAGTTGAAGGGAAGG 3417
DB |||||
QY 1416 -----GTGCGTGGTGGTTCGGCAGACTGTTGCTGCTGTGTGATGTCATGGGA 1460
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QY 3418 AAGATGAGAGGCTCATGCTTGGGGGTGTGAAGGTCACTCTTTTCCATGTGATGGAG 3477
DB |||||
QY 1461 AGCCACAAATCGAGGCGTGTGAACCTTGATGCGCTGAACATTTGAACTATGAARAAA 1520
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QY 1581 CACATGAGATGTTTATGTACATTTCTGTGTTCTAAGCATGCAATTTTCTGGAGATACGAT 1640
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DB |||||
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QY 1941 TATTGAAGGTGATGACCTTCATATCCAGAGAAATGTGCAAAAGCTGAGGACACAGTGAA 2000
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DB |||||
QY 3993 AAAGGTACTATTGGCAAGCCCAATFACTAAGCCATTCAGTAG--GAGACGTGGGGATTC 4050
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DB |||||
QY 4051 TTCTCTGCTTCCCGAGTCCCTTACTTTGTGAAACATTTTATTTGACTTGTCTACTATCTG 4110
DB |||||
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DB |||||
QY 4111 GTCCATTACTCGCTTAGCTGCACCTGTATCTAGCTGGGTCTATAGATCTTTCAATCTGTG 4170

QY 2177 TCCAAATCTTGCAAAATGTAGAAATCTAGAACTGGTTGGGATCTTAGCTTGTCTAGTCAC 2236
DB |||||
QY 4171 TCTAAATTT---GTAAGTCACAATTTCTGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTC 4227
DB |||||
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DB |||||
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DB |||||
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DB |||||
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DB |||||
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DB |||||
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DB |||||
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DB |||||
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DB |||||
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DB |||||
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DB |||||
QY 4521 AGTATTTAGAAATCACTGGTATTAATAGCTATCATCTTAAATTAATAATATAGGCCATATA 4580
DB |||||
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DB |||||
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DB |||||
QY 2709 TTTTCTTCTCTCTCTCCCATCAAGACCTTCCATTTCTAGTTTCTCTCTTCACTCCCTCA 2768
DB |||||
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DB |||||
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DB |||||
QY 2887 GTGACTCACCCCAAAACCGGAGGAATGATTTAGGAGCAGTGAAGTGAAGTCTTT--GCAAG 2945
DB |||||
QY 4873 CTGACTTTGCCCTAAGCCAGAGGCAATGTTGATAGCAGAGAAAGTGAAGGCTCTTCGCAAG 4932
DB |||||
QY 2946 CAGTACAACATACTCAGAAAACATGAAGGCTCCAGTTGATGGAATTTTTCAGTAAACA 3005
DB |||||
QY 4933 TGGGTGTGCTTAAGTAATCAGAAAACAGAAAGGCTCCGGTTTATGGAATTTATCAGTAAGT 4992
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QY 3006 GCTTAACTTAATTTCCCTCTTTTCCCTCTGACTTTTAAAAAAGCTTTTCTTCTCTGAG 3065
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QY 4993 ATCTACCTTATCTCTCTTATCGAAC-----TAAATCGTCTCTTTTCTTCTGTG 5042
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QY 3066 CATCATTTAATGAGTGTGACTGTTTCTTTCTTGTATTAATGAAGCTTTGTAGTTTAAA 3125
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QY 5043 TGTAGGCTGATTAACACACTTGT--TTCTTTGAGTGTTCATGGCTTTGTAGATTTTA 5100
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QY 3126 TTGTGAAGCCAGTTCTCTTGTATTAGAATCTTATCTAGACATGGAGGCTGATGTTA 3185
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QY 5101 GTGCTCTGCCAGTTCTTGTTAGAG--GGTTGTTTACCTTGACACCTGGGCTTGGATGTTA 5158
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Db 5963 AGGCAAGCCCGACCAATGGGTTGAATGTGGGTCTTTGAGTCAAGCGTTTGAAGTTGAG 6022
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Qy 4686 CTGTTATGTTCTCGAGAAATGCTGCAATTTGACCAAGCAAGCTGAAAATGAATAAC 4745
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RESULT 6
US-09-354-243B-8
; Sequence 8, Application US/09354243B
; Patent No. 6359117
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fa
; TITLE OF INVENTION: (TIFFs)
; FILE REFERENCE: LUD 5543.1
; CURRENT APPLICATION NUMBER: US/09/354,243B
; CURRENT FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 8
; LENGTH: 7445
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-354-243B-8

Query Match 14.3%; Score 686; DB 3; Length 7445;
Best Local Similarity 53.8%; Pred. No. 1.8e-181;
Matches 2644; Conservative 0; Mismatches 1875; Indels 393; Gaps 44;
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Qy 89 ATCTGTGAGCTCTTTCCTTATGGGACCCCTGGCCACCAGCTGCTCTCTCTTTGGCCCT 148
Db 2094 ATCTATGAGTTTTTCCCTTATGGGACTTTTGGCGCCAGCTGCTGCTCTCTCTATGCTCT 2153
Qy 149 CTTGGTACAGGAGGAGCAGCTGGGCCCATCAGCTCCCACTGAGGCTTGCAAGTCCAA 208

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Db 2334 CGCTTTATCTCCGAGGCTCTCACTACCTATGTTT-----TCTGTCTCTTTAGAG 2382
Qy 389 TTTTTCAGAGACTCTTTGGGAATCTGGCTTTTTTTTTTCTTGAACCTTCTCTCCAT 448
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Qy 629 GTATAAATTTTTTTTCTATTTGCTCAATGTCACAGCCCTTAGTCTTTTCTCTCTCCAG 688
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Qy 929 TGTTCCTCAATCTGATAGGTTCCAGCCTTATATGCAAGGAGGTGGCCCTTCTGGGCA 988
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Db 4111 GTCCATTTACTCGCTTAGCTGCACCTGTATCTAGCTGGGTCTATAGATCTTTTCAATCTGTG 4170
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RESULT 8

US-09-419-568F-29

: Sequence 29, Application US/09419568F

: Patent No. 6331613

: GENERAL INFORMATION:

: APPLICANT: Dumoutier, Laure

: APPLICANT: Louhed, Jamila

: APPLICANT: Renaud, Jean-Christophe

: TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac

: TITLE OF INVENTION: (TIPs) The Proteins Encoded, and Uses Thereof

: FILE REFERENCES: LUD 5543.2

: CURRENT APPLICATION NUMBER: US/09/419,568F

: PRIOR FILING DATE: 1999-10-18

: PRIOR FILING DATE: 1999-07-16

: PRIOR FILING DATE: 1999-10-26

: NUMBER OF SEQ ID NOS: 29

: SEQ ID NO 29


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; LENGTH: 5935
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-419-568P-29

Query Match      13.6%; Score 650; DB 3; Length 5935;
Best Local Similarity 56.5%; Pred. No. 2.1e-171;
Matches 1863; Conservative 0; Mismatches 1285; Indels 152; Gaps 29;

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Qy  209  CTTCCAGCAGCCCTATATACAAACCGCACTTCACTGCTGGCTAAGGAGGTATACATCTC 268
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Qy  536  CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCCAAGGAGGTACAGCTGCA 595
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  269  AATCTGCTCTTTCTCGTTGGATCTACTTGGAAATCCAAATAGTTCTTAAACTTTCTTCA 328
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  596  TCTCTTTCTCCATACCGCTTGCCATTTCTCTGAAGCACTTGCAAACTCTTTAGGGGC 655
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  329  GAGCATCTTAAGAGCTTTAGGAAACCCACTGTTTATCCCTGAGGGTAGATAAATTTCTG 388
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  656  GCTTTATCTCGCAGGCTCTACTACCTATGTTTCTGTCT-----CTTTAGAG 703
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  389  TTTTTCAGAGCTCTTTGGGAACTGGCTTTTTTTTTTTTCTGAACTTCTTCTCTCCAT 448
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  704  ACTCTTTAAGGACTGGATCTTTTCTTCTATTTCTAATTTCAAAGGCTCTCAGGACCATTTCTAT 763
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  764  CTTGGCTTTCAGGACACATATCTGAAATTTTATCTACAGAGCGCGTTT--AGAAAGCCA 821
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Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  569  AATTCTGCTTTTATGTTTATGATGTGCTCTGGGGAGACGGGATGGGGACATGTCAT 628
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  882  TACTC-----CTGAGACCCACTGGCGGACATACATCTCTAC 916
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  629  GTATAAATTTTCTTATTTGCTCAATGTCCAGACCCCTTAGTCTTTTCTCTCTCCAG 688
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  689  GCTAGCTGGCTGATAACAAACAGACGCTCGTCTCATTTGGGGAGAACTGTTCCACGGA 748
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Qy  976  GCCAGCTTGAGATACAAACAGACGCTCGGCTCATCGGGAGAACTGTTCCGAGGA 1035
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  749  GTCAGTGAAGCTACAGTTGTGAACACAGGGCCGTTGTCCTCCATGGGTACTTGGGGT 808
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  809  GGTGGTGAATGGTTTATGCTTATCCCTTATGACCCCTTTCTGTTTCCCTTCCACTGC 868
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  869  AGATCAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTCAATCTCACCCCTTGAAAGATGC 928
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  1139  AGGCTAAGGATCAGTGTCTCTCTGATGAAGCAGGTGCTCAATCTCACCCCTGGAAGCATTC 1198
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Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Qy  989  GGCTCAGCAACAGGCTAAGCACAATGTGTAAAGTTAGCTCTCAGCTCTATGCCCACTTACCC 1048
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Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  1319  CTTCTCTCTTCTATTTCCAGTAAGAACCCGAGGTCTGCTCCCTCTCTCTCTCTCTCTCTCTCA 1378
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  1109  TAGCTAGCAGGAAGAGTGTCTTGGCAGCAGTGTATCAGGAGTCA-----TTTGGG 1161
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  1379  GAGGGGCTCAGCACCAACCACCATCATAGGCCACTTGAAATAGGTCAAAAGGCTTTGGC 1438
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  1162  ATCATAGAGTATTTGCTTTTGTCTTGACTCAGTCACATCTTGAGTTTATAGTGGTGAATG 1221
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  1439  TTTCAATTGAGTAATACCTTTGAGTTTGTATTAAGTTTATTTGTTTATCCATCGAA 1498
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Qy  1222  GGGTCTGGAATCTTAAGGTACAGAGCCGATTTGGTTTGTCTTCGGGAAAAAAGCAACTC 1281
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Qy  1499  AGAAATCAACTCAAAATTTCTGTAGATGAGAAAGATGTTGGGAACGAAAAAAGGCTAGAT 1558
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  1559  AGAGAAACAGATCTGCTGAGTACAGTACTTTATGGGGGGGGGGGAGGGGCGATATCCA 1618
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  1339  TTGAGTCTAAAGTTGTTGAGGGGAGGGGATGGCATGGAGAGAAATTTAGAGAGAAAGTGGG 1398
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  1619  CTGAGTCCAAGTACTTTGTTGGGAGAGAAATCCACTGAGTACAGTACTTTGTTGGGGAGG 1678
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  1399  AAATGGGAAGGCTTAAAGTCTGGTGGTGGCGGAGACTGTTGCC-----TGTTGA 1450
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  1679  AATGGCACAGAGCAAAAGTTGAAGGGGAAAGAGGAGATGGAGAGGCCCTCAATGTTGGGG 1738
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Qy  1451  TGTCTGGAAGCCACAAAATCGGAGCGTGTGAATGATCGCGTGAACATTTGAAC 1510
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Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Qy  1571  GCTTAAATTTCAATGAGATGTTTTATGATCATTTCTTTGTTCTAAGCATGCAATTTCTG 1630
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  1858  CGCGGCTTTTCAACGAGAACTTTATGCTCATCTCTGTGTACACTCCACACTTTGAT 1917
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  1631  GAGATACGATGAGTTTATTTCTTACAGAAATTTGCATAACTACTCCGCTCTTTCCAC 1690
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Qy  1918  GAGGTTAAGCTCAGGTTTCTTCT-----ACCGTCTCTGTGTAC 1956
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  1691  AATGCAAACTCAGTAGGATTTCCCAAAGATGAAGAGAGGTCTCTTGTAGGGAAGTGA 1750
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  1957  TGGTGGAAACTTCTAGTAGGATTTCCCAAAGACGAGGACAGCTCTTCTGTAGGAGGGAC 2016
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Qy  1811  TAGTCAATTTGGGCAAAATTTACTAAGCTTTTAAATTTCCAGGTGAATTTGACTGACTC 1870
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  2077  AGGTCACAGCGGGGCAAAATTAAGTGAACGCTCTATTTCAGGTGAACGGTCACGTGCTC 2136
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  1871  CATGGGTGTGAGGTTTCATAAAGTTTCAGCACAACTTAAGATAGTATTGCTTGTATTG 1930
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  2137  AGATATCTAGGTTATTTGGGCTCCACCGGATAGATTTCTGTAGTGA-GTCTGCTTTTA 2195
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  1931  TTTTATAGCATTTTGAAGGTGATGACCTGCAATATCCAGAGGAATGTGCAAAAGCTGAAG 1990
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy  2196  TTTTGCAGCATCAGTGGTGAACGACCAAGAACATCCAGAGAAATGTCAAGAGGCTGAAG 2255
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Qy  2256  AGACAGTGAAGGAGTACTATTGGCAAGCCCAATACTAAGCCATTCTAGTAGGAGACGTG 2315
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

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Db 601 TGTGTGATTTTCAAGACCTTTTAATCCATTTTGAAGAATCAATTTTATATTTGCAATGGG 542
Qy 3359 TTGCCATGTGGAAGAGTATATGCTTTTGTCTGGTAGCTTTCAGAAAGCACAGGAGGGA 3418
Db 541 TTGCCATGTGGAAGAGTATATGCTTTTGTCTGGTAGCTTTCAGAAAGCACAGGAGGGA 482
Qy 3419 GAGCAATGTTCTTCAGAGAAAGATCAACAGGAGGAGAACTGTGAGAGCTGTCTGAAATA 3478
Db 481 GAGCAATGTTCTTCAGAGAAAGATCAACAGGAGGAGAACTGTGAGAGCTGTCTGAAATA 422
Qy 3479 GGGTGGTTTTGGGAGGCATTAATTTCCCTCTCGTTGGGGGTAAAGACGCAAGGTGG 3538
Db 421 GGGTGGTTTTGGGAGGCATTAATTTCCCTCTCGTTGGGGGTAAAGACGCAAGGTGG 362
Qy 3539 TAGTAAATGATGACAGACAGTAGGAGGACGATAACTTTTAAATTTCTTTATAGTCTTGG 3598
Db 361 TAGTAAATGATGACAGACAGTAGGAGGACGATAACTTTTAAATTTCTTTATAGTCTTGG 302
Qy 3599 AGTCTTTGAGATAGAAAGATATCTTTTTCGCTTATGTCAAAAGAAAGTATGAAAGGT 3658
Db 301 RGTCTTTGAGATAGAAAGATATCTTTTTCGCTTATGTCAAAAGAAAGTATGAAAGGT 242
Qy 3659 GAAAGGGCGGAAGAAAGCAGGAAAGGAAGCAACCATGTATTATATAGAGCAATGTGA 3718
Db 241 GAAAGGGCGGAAGAAAGCAGGAAAGGAAGCAACCATGTATTATAGAGCAATGTGA 182
Qy 3719 CAAGTGTCTTGAATAATGCAAAATAGATAGATAGAGGAATTCAGTAGGAATGC 3778
Db 181 CAAGTGTCTTGAATAATGCAAAATAGATAGATAGAGGAATTCAGTAGGAATGC 122
Qy 3779 TTTTCACATTGAATTTGGGTTTCCCTTCGATTAAGTTTGGATCCTCATCTGCATTGAC 3838
Db 121 TTTTCACATTGAATTTGGGTTTCCCTTCGATTAAGTTTGGATCCTCATCTGCATTGAC 62
Qy 3839 TTGAGAGAGAAAGAAATGAATGTTAGGACCTATATCTGTTTCTATTAACTAAAGCAAG 3898
Db 61 TTGAGAGAGAAAGAAATGAATGTTAGGACCTATATCTGTTTCTATTAACTAAAGCAAG 2
Qy 3899 T 3899
Db 1 T 1

Query Match 5.4%; Score 258; DB 3; Length 690;
Best Local Similarity 100.0%; Pred. No. 9e-62;
Matches 258; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

US-09-419-568F-24
; Sequence 24, Application US/09419568F
; Patent No. 6331613
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: (Tifs) The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543-2
; CURRENT APPLICATION NUMBER: US/09/419,568F
; CURRENT FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 24
; LENGTH: 690
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:

Qy 1 TGCAACAGCAAGATCTTTAGAACAGGTTCTCTTCCCTCCAGTCACCAAGTTCTCGAGTTAG 60
Db 1 TGCAACAGCAAGATCTTTAGAACAGGTTCTCTTCCCTCCAGTCACCAAGTTCTCGAGTTAG 60
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Db 61 AATTGTCTGAATGGCGCCCTCGAGAAATCTGTGAGCTCTTTCTTTATGGGACCCCTGG 120
Qy 121 CCACCAAGTCCCTCTCTTCTGCGCCCTCTTGTGTACAGGAGGAGAGCTGCGCCCATCA 180
Db 121 CCACCAAGTCCCTCTCTTCTGCGCCCTCTTGTGTACAGGAGGAGAGCTGCGCCCATCA 180
Qy 181 GCTCCCACTGACAGGCTTTGACAAAGTCCAACTTCCAGCAGCCCTATATCACCACCGCACCT 240
Db 181 GCTCCCACTGACAGGCTTTGACAAAGTCCAACTTCCAGCAGCCCTATATCACCACCGCACCT 240
Qy 241 TCATGCTGGCTAAGGAGG 258
Db 241 TCATGCTGGCTAAGGAGG 258

RESULT 13
US-09-354-243B-24
; Sequence 24, Application US/09354243B
; Patent No. 6359117
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fa
; TITLE OF INVENTION: (Tifs)
; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.1
; CURRENT APPLICATION NUMBER: US/09/354,243B
; CURRENT FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 24
; LENGTH: 690
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:

US-09-354-243B-24
Query Match 5.4%; Score 258; DB 3; Length 690;
Best Local Similarity 100.0%; Pred. No. 9e-62;
Matches 258; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGCAACAGCAAGATCTTTAGAACAGGTTCTCTTCCCTCCAGTCACCAAGTTCTCGAGTTAG 60
Db 1 TGCAACAGCAAGATCTTTAGAACAGGTTCTCTTCCCTCCAGTCACCAAGTTCTCGAGTTAG 60
Qy 61 AATTGTCTGAATGGCGCCCTCGAGAAATCTGTGAGCTCTTTCTTATGGGACCCCTGG 120
Db 61 AATTGTCTGAATGGCGCCCTCGAGAAATCTGTGAGCTCTTTCTTTATGGGACCCCTGG 120
Qy 121 CCACCAAGTCCCTCTCTTCTGCGCCCTCTTGTGTACAGGAGGAGAGCTGCGCCCATCA 180
Db 121 CCACCAAGTCCCTCTCTTCTGCGCCCTCTTGTGTACAGGAGGAGAGCTGCGCCCATCA 180
Qy 181 GCTCCCACTGACAGGCTTTGACAAAGTCCAACTTCCAGCAGCCCTATATCACCACCGCACCT 240
Db 181 GCTCCCACTGACAGGCTTTGACAAAGTCCAACTTCCAGCAGCCCTATATCACCACCGCACCT 240
Qy 241 TCATGCTGGCTAAGGAGG 258
Db 241 TCATGCTGGCTAAGGAGG 258

RESULT 14
US-09-949-016-5443
; Sequence 5443, Application US/09949016

Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: Fast-Seq for Windows Version 4.0
SEQ ID NO 5443
LENGTH: 689
TYPE: DNA
ORGANISM: Human
US-09-949-016-5443

Query Match 5.3%; Score 256; DB 3; Length 689;
Best Local Similarity 100.0%; Pred. No. 3.3e-61;
Matches 256; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3 CACAAGCAGAAATCTTCAGAACAGGTTCTCCTTCCCCAGTCACCAAGTTGCTCGAGTTAGAA 62
Db 2 CACAAGCAGAAATCTTCAGAACAGGTTCTCCTTCCCCAGTCACCAAGTTGCTCGAGTTAGAA 61
Qy 63 TTGTCTGCAATGGCGCCCTGCAGAAATCTGTGAGCTCTTTCTTATGGGAGCCCTGGCC 122
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Qy 123 ACCAGTGCCTCCTTCTTCTGGCCCTTGTGTACAGGAGGAGAGCTGGCCCATCAGC 182
Db 122 ACCAGTGCCTCCTTCTTCTGGCCCTTGTGTACAGGAGGAGAGCTGGCCCATCAGC 181
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Qy 243 ATCTGCTAAGGAGG 258
Db 242 ATCTGCTAAGGAGG 257

RESULT 15
US-09-870-574-1
Sequence 1, Application US/09870574
Patent No. 6551799
GENERAL INFORMATION:
APPLICANT: Gurney, Austin L.
APPLICANT: Aggarwal, Sudeepa
APPLICANT: Xie, Ming-Hong
APPLICANT: Maruoka, Ellen M.
APPLICANT: Foster, Jessica S.
APPLICANT: Goddard, Audrey
APPLICANT: Wood, William I.
TITLE OF INVENTION: INTERLEUKIN-22 POLYPEPTIDES, NUCLEIC ACIDS ENCODING
THE SAME AND METHODS FOR THE TREATMENT OF PANCREATIC DISORDERS
FILE REFERENCE: P2806-1(US)
CURRENT APPLICATION NUMBER: US/09/870,574
CURRENT FILING DATE: 2001-05-30
PRIOR APPLICATION NUMBER: US 60/169,495
PRIOR FILING DATE: 1999-12-07
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: PCT/US00/23328
PRIOR FILING DATE: 2000-08-24
NUMBER OF SEQ ID NOS: 7
SEQ ID NO 1
LENGTH: 1152

TYPE: DNA
ORGANISM: Homo Sapien
US-09-870-574-1
Query Match 5.1%; Score 244; DB 3; Length 1152;
Best Local Similarity 100.0%; Pred. No. 1.1e-57;
Matches 244; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 15 CTTCAGAACAGGTTCTTCTTCCCCAGTCACCAAGTTGCTCGAGTTAGAATTGTCTGCAATG 74
Db 1 CTTCAGAACAGGTTCTTCTTCCCCAGTCACCAAGTTGCTCGAGTTAGAATTGTCTGCAATG 60
Qy 75 GCGGCCCTGCAGAAATCTGTGAGCTCTTTCTTATGGGAGCCCTGGCCACAGTCGCTC 134
Db 61 GCGGCCCTGCAGAAATCTGTGAGCTCTTTCTTATGGGAGCCCTGGCCACAGTCGCTC 120
Qy 135 CTTCTCTTGGCCCTCTTGTGTACAGGAGGAGGAGCTGGCCCATCAGTCCCACTGCAGG 194
Db 121 CTTCTCTTGGCCCTCTTGTGTACAGGAGGAGGAGCTGGCCCATCAGTCCCACTGCAGG 180
Qy 195 CTTGACAAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAG 254
Db 181 CTTGACAAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAG 240
Qy 255 GAGG 258
Db 241 GAGG 244

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OM nucleic - nucleic search, using sw model

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16534.837 Million cell updates/sec

Title: US-09-751-797-25

Perfect score: 4797

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Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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 - 9: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq:*
 - 10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	4797	100.0	4797	3	US-09-751-797-25
2	4797	100.0	4797	7	US-10-627-273-25
3	1349	28.1	1351	4	US-09-925-065A-79886
4	1095.6	22.8	1108	4	US-09-925-065A-687291
5	1073.6	22.4	1074	5	US-10-027-632-118181
6	1073.6	22.4	1074	6	US-10-027-632-118181
7	686	14.3	7445	3	US-09-751-797-8
8	686	14.3	7445	7	US-10-627-273-8
9	650	13.6	5935	3	US-09-751-797-29
10	650	13.6	5935	7	US-10-627-273-29
11	611.8	12.8	637	5	US-10-027-632-208140
12	611.8	12.8	637	5	US-10-027-632-208141
13	611.8	12.8	637	5	US-10-027-632-208142
14	611.8	12.8	637	6	US-10-027-632-208140
15	611.8	12.8	637	6	US-10-027-632-208141
16	611.8	12.8	637	6	US-10-027-632-208142
17	601	12.5	603	4	US-09-925-065A-170359
18	601	12.5	603	4	US-09-925-065A-170360
19	599.4	12.5	603	4	US-09-925-065A-170361
20	258	5.4	690	3	US-09-751-797-24
21	258	5.4	690	7	US-10-627-273-24
22	244	5.1	1152	3	US-09-870-574-1
23	244	5.1	1152	5	US-10-006-867-153

ALIGNMENTS

RESULT 1

US-09-751-797-25

; Sequence 25, Application US/09751797

; Patent No. US20010024652A1

; GENERAL INFORMATION:

; APPLICANT: Dumoutier, Laure

; APPLICANT: Renauld, Jean-Christophe

; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac

; FILE REFERENCE: LUD 5543.2

; CURRENT APPLICATION NUMBER: US/09/751,797

; PRIOR FILING DATE: 2000-12-29

; PRIOR FILING DATE: 1999-10-18

; PRIOR APPLICATION NUMBER: US09/178,973

; PRIOR FILING DATE: 1998-10-26

; NUMBER OF SEQ ID NOS: 29

; SEQ ID NO 25

; LENGTH: 4797

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

US-09-751-797-25

Query Match 100.0%; Score 4797; DB 3; Length 4797;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 4797; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	TGCACAGCAGAACTTTCAGAACAGGTTCTCTCCACGTCACCACTGCTCGAGTTAG	60
Db	1	TGCACAGCAGAACTTTCAGAACAGGTTCTCTCCACGTCACCACTGCTCGAGTTAG	60
Qy	61	AATTGTCGAATGGCGCCCTGCAGAAATCTGTAGCTTTTCCTTATGGGACCTGG	120
Db	61	AATTGTCGAATGGCGCCCTGCAGAAATCTGTAGCTTTTCCTTATGGGACCTGG	120
Qy	121	CGACCACTGCTCTCTCTCTGCGCTCTGTGTACAGGAGGAGGAGCTGCGCCATCA	180
Db	121	CGACCACTGCTCTCTCTCTGCGCTCTGTGTACAGGAGGAGGAGCTGCGCCATCA	180
Qy	181	GCTCCCACTGAGGCTTGACAACTTTCAGAGCCCTATATCACCACCGCACCT	240
Db	181	GCTCCCACTGAGGCTTGACAACTTTCAGAGCCCTATATCACCACCGCACCT	240
Qy	241	TCATGCTGGCTAAGGAGGTATACATCTCAATCTCTTCTTCTGTTGGATCTACTTGA	300

[illegible]

D _b	1321	GCTGTGGAATAGATCCATTGACTTAAGTGTGTGGAGGGAGGGATGGCATCGAGAGAA	1381
Q _y	1381	ATTAGAAGAAAAGTCGGAAATGGGAAGGCTTAAAGTCGGTGCTGGGTGGCAGACGTGTT	1440
D _b	1381	ATTAGAAGAAAAGTCGGAAATGGGAAGGCTTAAAGTCGGTGCTGGGTGGCAGACGTGTT	1440
Q _y	1441	GCCTGTGTGATCATCGGGAAGGCCAATAATTCGGAGGCGTGTGAACCTTGATGCGCGTGAA	1500
D _b	1441	GCCTGTGTGATGTCATCGGGAAGGCCAATAATTCGGAGGCGTGTGAACCTTGATGCGCGTGAA	1500
Q _y	1501	CATTGTGAACCTATGARAARAAAGTTTCAGTCGAGTGGGCCAGTAAAGGCCCTTAGGACTT	1560
D _b	1501	CATTGTGAACCTATGARAARAAAGTTTCAGTCGAGTGGGCCAGTAAAGGCCCTTAGGACTT	1560
Q _y	1561	ACTGAAGAGGCGTTAAATTTTTCAATCAGATGAGATGTTTTATGTACATCTTCCTTTAAAGCATG	1620
D _b	1561	ACTGAAGAGGCGTTAAATTTTTCAATCAGATGAGATGTTTTATGTACATCTTCCTTTAAAGCATG	1620
Q _y	1621	CAATTTTCTGGAGATACGATTCGAGTTTATTCCTTTACAGAAATTTGTCATTAACCTACTCCG	1680
D _b	1621	CAATTTTCTGGAGATACGATTCGAGTTTATTCCTTTACAGAAATTTGTCATTAACCTACTCCG	1680
Q _y	1681	CTCTTTTCCAATAATGCAAACTCAGTAGGATTTTCCCAGAGATGAAGAGAGGTCTCTTGTA	1740
D _b	1681	CTCTTTTCCAATAATGCAAACTCAGTAGGATTTTCCCAGAGATGAAGAGAGGTCTCTTGTA	1740
Q _y	1741	AGGNAAGTGACTGATTTCTGGCGTCCAAAGGGAATTCAGAGAGCTCAGGAAATCTAGGTCAC	1800
D _b	1741	AGGNAAGTGACTGATTTCTGGCGTCCAAAGGGAATTCAGAGAGCTCAGGAAATCTAGGTCAC	1800
Q _y	1801	TGTTGAAATCTAGTCAATTCGTGGGCAAAATTTACTAAGAGCTTTAAATTCAGGTGAATTTGT	1860
D _b	1801	TGTTGAAATCTAGTCAATTCGTGGGCAAAATTTACTAAGAGCTTTAAATTCAGGTGAATTTGT	1860
Q _y	1861	ACTGTACTCCATGGGTGTGGAGTTTCATAAAGTTTCAGCACACACATTTAGATAGTTATG	1920
D _b	1861	ACTGTACTCCATGGGTGTGGAGTTTCATAAAGTTTCAGCACACACATTTAGATAGTTATG	1920
Q _y	1921	CTTGTTATTTGTTTTATAGCATATTGAAGGTGATGACCCTGCATATCCAGAGGAATGTGCAA	1980
D _b	1921	CTTGTTATTTGTTTTATAGCATATTGAAGGTGATGACCCTGCATATCCAGAGGAATGTGCAA	1980
Q _y	1981	AAGCTGAAGGACACAGTGAAAAAGGTAGGACTGATAAATCTGTCAATGCTAAGTCATGCAAT	2040
D _b	1981	AAGCTGAAGGACACAGTGAAAAAGGTAGGACTGATAAATCTGTCAATGCTAAGTCATGCAAT	2040
Q _y	2041	AGGAGAGACAAATGTTGTTTTTTCTTCTCTTTCTTTCTTTCCCATCACCCTTTGTGATTTTCA	2100
D _b	2041	AGGAGAGACAAATGTTGTTTTTTCTTCTCTTTCTTTCTTTCCCATCACCCTTTGTGATTTTCA	2100
Q _y	2101	CTTGATTCTCTACACACAGGGGATTTACTTTGGTGTCTGTGTATGTAGATATATCTATA	2160
D _b	2101	CTTGATTCTCTACACACAGGGGATTTACTTTGGTGTCTGTGTATGTAGATATATCTATA	2160
Q _y	2161	TATCTAGATGTCAAGTTTCCAAATCTTCGAAATTTCTAGAAATCTGTTGGGATCT	2220
D _b	2161	TATCTAGATGTCAAGTTTCCAAATCTTCGAAATTTCTAGAAATCTGTTGGGATCT	2220
Q _y	2221	TAGCTTGTCTAGTCACATAACCTCAGATTTCTGGGGATGGTCAGTGGCAGAGATAGGCGTA	2280
D _b	2221	TAGCTTGTCTAGTCACATAACCTCAGATTTCTGGGGATGGTCAGTGGCAGAGATAGGCGTA	2280
Q _y	2281	GAATGCAGGTCTCTCGAATCCCAAGCCAGACATTTTCCCGGTGTGTATACAGATTAGTTT	2340
D _b	2281	GAATGCAGGTCTCTCGAATCCCAAGCCAGACATTTTCCCGGTGTGTATACAGATTAGTTT	2340
Q _y	2341	TGGTACCATTAAATTTCTTAGGGAAATTTTCAGATTTCTTATTCATCATGTAAATCTGAAGAAG	2400
D _b	2341	TGGTACCATTAAATTTCTTAGGGAAATTTTCAGATTTCTTATTCATCATGTAAATCTGAAGAAG	2400
Q _y	2401	TACTTGTTTAAAAACAGAAAAATCCCTATATGGGCAAAATTTATTTGAAGTCATTTTTGAAGT	2460
D _b	2401	TACTTGTTTAAAAACAGAAAAATCCCTATATGGGCAAAATTTATTTGAAGTCATTTTTGAAGT	2460

Db 4621 TTGCATTCTTATTTTCAAGCTTGGAGAGTGGAGAGATCAAAAGCAATTGGAGAACTGG 4680
Qy 4681 ATTGCTGTTTATGCTCTGAGAAATGCTGCAATTTGACAGAGCAAGCTGAAAAATGA 4740
Db 4681 ATTGCTGTTTATGCTCTGAGAAATGCTGCAATTTGACAGAGCAAGCTGAAAAATGA 4740
Qy 4741 ATAACTAACCCCTTTCCCTGCTAGAAATAACAATTAAGATGCCCAAGGCAATTTT 4797
Db 4741 ATAACTAACCCCTTTCCCTGCTAGAAATAACAATTAAGATGCCCAAGGCAATTTT 4797
RESULT 2
US-10-627-273-25
; Sequence 25, Application US/10627273
; Publication No. US20040110189A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renauld, Jean-Christophe
; APPLICANT: Louhed, Jamila
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: 2003-07-25
; PRIOR APPLICATION NUMBER: US/10/627,273
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US/09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 25
; LENGTH: 4797
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-10-627-273-25
Query Match 100.0%; Score 4797; DB 7; Length 4797;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 4797; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TGCAAGAGCAATCTTCAGAACAGGTTCTCCCTCCCGAGTCCAGTTGCTCGAGTTAG 60
Db 1 TGCAAGAGCAATCTTCAGAACAGGTTCTCCCTCCCGAGTCCAGTTGCTCGAGTTAG 60
Qy 61 AATTGCTGCAATGGCCGCCCTTGCAAGAAATCTGTGAGCTCTTTCTTATGGGACCCCTGG 120
Db 61 AATTGCTGCAATGGCCGCCCTTGCAAGAAATCTGTGAGCTCTTTCTTATGGGACCCCTGG 120
Qy 121 CCACAGTGCTCTCTTCTTTGGCCCTCTGGTACAGGAGGAGAGCTGGCCCATCA 180
Db 121 CCACAGTGCTCTCTTCTTTGGCCCTCTGGTACAGGAGGAGAGCTGGCCCATCA 180
Qy 181 GCTCCCACTGAGGCTTGACAAAGTCCAACTTCCAGAGCCCTATATCAACCAACGCACT 240
Db 181 GCTCCCACTGAGGCTTGACAAAGTCCAACTTCCAGAGCCCTATATCAACCAACGCACT 240
Qy 241 TCATGCTGGCTTAAGAGGATATACATCTCAATCTCTGCTCTTTCTGTTGGATCTACTTGA 300
Db 241 TCATGCTGGCTTAAGAGGATATACATCTCAATCTCTGCTCTTTCTGTTGGATCTACTTGA 300
Qy 301 ATCCAAATAGTCTTAAACTTTTCTTCTGAGAGATCTTAAGAGCTTTAGGAACCCACTGT 360
Db 301 ATCCAAATAGTCTTAAACTTTTCTTCTGAGAGATCTTAAGAGCTTTAGGAACCCACTGT 360
Qy 361 TTATCCCTGAGGATAGATAAATTTCTTTTTCAGAGATCTTTTGGGAATCTGGCTTT 420
Db 361 TTATCCCTGAGGATAGATAAATTTCTTTTTCAGAGATCTTTTGGGAATCTGGCTTT 420
Qy 421 TTTTCTTCTTGAACCTTCTCTTCCATTTTGGCCCTTTTATGATACATATGATGAATTTT 480
Db 421 TTTTCTTCTTGAACCTTCTCTTCCATTTTGGCCCTTTTATGATACATATGATGAATTTT 480

Db 421 TTTTCTTCTTGAACCTTCTCTTCCATTTTGGCCCTTTATGATACATATGATGAATTTT 480
Qy 481 CCNAAAGAGCGGCATTCAGTAATCCATCTGATGATATTTTTCCTTTATGCTCTGTG 540
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Qy 541 CATTTGTTCTAAATCTCATGACACATCTGAATCTGCTTTTAGTCTTTTATGATGTTGCTCT 600
Db 541 CATTTGTTCTAAATCTCATGACACATCTGAATCTGCTTTTAGTCTTTTATGATGTTGCTCT 600
Qy 601 GGGAGAGCGGATGGGGACATGTCATGTAATAAATTTTCTTATGCTCAATGTC 660
Db 601 GGGAGAGCGGATGGGGACATGTCATGTAATAAATTTTCTTATGCTCAATGTC 660
Qy 661 AGACCCCTTAGTCTTTTCTCTTCCAGGCTAGCTTGGCTGATAAACAACACAGACGTTG 720
Db 661 AGACCCCTTAGTCTTTTCTCTTCCAGGCTAGCTTGGCTGATAAACAACAGACGTTG 720
Qy 721 TCTCATTTGGGAGAACTGTTTCCACGAGTCAGTGTAAAGCTACAGTTGTGACGAACAGG 780
Db 721 TCTCATTTGGGAGAACTGTTTCCACGAGTCAGTGTAAAGCTACAGTTGTGACGAACAGG 780
Qy 781 CCGTGTCCGTCATGSGGTACTTGGGGTGTGATGATGTTTAGTCTTATCCCTTA 840
Db 781 CCGTGTCCGTCATGSGGTACTTGGGGTGTGATGATGTTTAGTCTTATCCCTTA 840
Qy 841 TGACCCCTTCTGTTTCCCTTCCACCTGAGATGAGTGAGCTCTATCTGATGAAGCAG 900
Db 841 TGACCCCTTCTGTTTCCCTTCCACCTGAGATGAGTGAGCTCTATCTGATGAAGCAG 900
Qy 901 GTGCTGAACCTTCAACCCCTTGAAGAGTGTCTTCCCTCAATCTGATAGTTTCCAGCTTAT 960
Db 901 GTGCTGAACCTTCAACCCCTTGAAGAGTGTCTTCCCTCAATCTGATAGTTTCCAGCTTAT 960
Qy 961 ATGACAGAGTGTGTCCTTCTGCGCCAGGCTGAGCAACAGGCTAAGCAGATGTGTAAGT 1020
Db 961 ATGACAGAGTGTGTCCTTCTGCGCCAGGCTGAGCAACAGGCTAAGCAGATGTGTAAGT 1020
Qy 1021 TCAGCTCTCAGCTATGCCACCTTACCCCTTCCCTTCCCTTCCACAGAGACCCCTTAC 1080
Db 1021 TCAGCTCTCAGCTATGCCACCTTACCCCTTCCCTTCCCTTCCACAGAGACCCCTTAC 1080
Qy 1081 CCNAACTCTCTCTCTTCCCTTACCCCTTAAAGCTAGCAGGAAGAGTGTCTTGGCAGCAG 1140
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Qy 1141 TGTATCAGAGTCAATTTGGGATCATAGATATTTGCTTTTGTCTTTGACTGAGTCAATC 1200
Db 1141 TGTATCAGAGTCAATTTGGGATCATAGATATTTGCTTTTGTCTTTGACTGAGTCAATC 1200
Qy 1201 TTGAGTTTATAGTGGTGAATGGGGTCTGGAACCTTAAAGTGTACAGAAGCCGATTTGTTG 1260
Db 1201 TTGAGTTTATAGTGGTGAATGGGGTCTGGAACCTTAAAGTGTACAGAAGCCGATTTGTTG 1260
Qy 1261 TCTTTCGAAAAAAGGCAACTCAGTTGCTGAAGATGAGAAAGGTTTGGGAAAAACATCTA 1320
Db 1261 TCTTTCGAAAAAAGGCAACTCAGTTGCTGAAGATGAGAAAGGTTTGGGAAAAACATCTA 1320
Qy 1321 GCTGTGAATATGATATGATGAGTCTAAGTTGTTGAGGGAGGGATGGCATGGAGAGAA 1380
Db 1321 GCTGTGAATATGATATGATGAGTCTAAGTTGTTGAGGGAGGGATGGCATGGAGAGAA 1380
Qy 1381 ATTAGAGAGAAAGTGGGAATGGGAAGGCTTAAAGTGGGTGGGTGGGCTGAGACTGTT 1440
Db 1381 ATTAGAGAGAAAGTGGGAATGGGAAGGCTTAAAGTGGGTGGGTGGGCTGAGACTGTT 1440
Qy 1441 GCCCTGTTGATGTCATGGGAAGCCACAAAATCGGAGGCGTGTGAACCTTGAATGCCGCTGAA 1500
Db 1441 GCCCTGTTGATGTCATGGGAAGCCACAAAATCGGAGGCGTGTGAACCTTGAATGCCGCTGAA 1500
Qy 1501 CATTTGAAACTTATGAAAAAAGTGTGAGTGGGCCCCAGTAAAGGCCCTTAGGACTT 1560
Db 1501 CATTTGAAACTTATGAAAAAAGTGTGAGTGGGCCCCAGTAAAGGCCCTTAGGACTT 1560

[illegible]

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US-09-925-065A-79886
; Sequence 79886, Application US/09925065A
; Publication No. US20050228172A9
;
; GENERAL INFORMATION:
;
; APPLICANT: Wang, David G.
;
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
;
; FILE REFERENCE: 108827.135
;
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
;
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
;
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
;
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
;
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
;
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
;
; NUMBER OF SEQ ID NOS: 957086
;
; SOFTWARE: FastSeq for Windows Version 4.0
;
; SEQ ID NO 79886
;
; LENGTH: 1351
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; TYPE: DNA
;
; ORGANISM: Homo sapiens
US-09-925-065A-79886

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Query Match	28.1%	Score 1349;	DB 4;	Length 1351;
Best Local Similarity	99.9%	Pred. No. 0;		
Matches 1349; Conservative	1;	Mismatches	1;	Indels 0; Gaps 0;
QY	2467	TGCATTGCTTTGAAACTTGGAGAATAAACTCAGAACAACTGAGAAAAAGACTGGACTTGC	2526	
DB	1	TGCATTGCTTTGAAACTTGGAGANATAAATCTCAGAACAACTGAGAAAAGAGATGGACTTGC	60	
QY	2527	ATATAGGGCTAAATTTCTGGAGTATAAACACTTATTTTGAATTTATCATTAATATCTATCAG	2586	
DB	61	ATATAGGGCTAAATTTCTGGAGTATAAACAACCTTATTTTGAATTTATCATATAATATCTATCAG	120	
QY	2587	ATATTGATTATAGTTTAAAGCAGAGCAGACAACCCCGATCTCTTTTATACAGGTTCAA	2646	
DB	121	ATATTGATTATAGTTTAAAGCAGAGCAGACAACCCCGATCTCTTTTATACAGGTTCAA	180	
QY	2647	ATAGAGTAAAAATATTAGTAAGAGATTATTATAGTTTAAATGGAAGTCTGAAATGGTAAAG	2706	
DB	181	ATAGAGTAAAAATATTAGTAAGAGATTATTATAGTTTAAATGGAAGTCTGAAATGGTAAAG	240	
QY	2707	CTTTTTTTTCTTCCCTCTCCCATCAAGACCTTCCATTTCTAGTTTCTTCCCTTCACTCGCT	2766	
DB	241	CTTTTTTTTCTTCCCTCTCCCATCAAGACCTTCCATTTCTAGTTTCTTCCCTTCACTCGCT	300	
QY	2767	CAACAAATCCCTAGGGAGCATTTTATCCATGGTGGGCTGGTGACATTTCTATAGTGAATG	2826	
DB	301	CAACAAATCCCTAGGGAGCATTTTATCCATGGTGGGCTGGTGACATTTCTATAGTGAATG	360	
QY	2827	ATACCATCATGTGGCCCTATTGTGTGAAAAGAAACAACTGGAAGGCTTAGACTAACAAATA	2886	
DB	361	ATACCATCATGTGGCCCTATTGTGTGAAAAGAAACAACTGGAAGGCTTAGACTAACAAATA	420	
QY	2887	GTGACTCACCCCAAAACCGGAGGAATGATTAGGAGCAGTGAAGTGCAGCTCTTGGCAAGC	2946	
DB	421	GTGACTCACCCCAAAACCGGAGGAATGATTAGGAGCAGTGAAGTGCAGCTCTTGGCAAGC	480	
QY	2947	AGGTACAACTAAATACCTCAGAAAACATGAAGGCTCCAGTTGATGGAATTTTTCAGTAAACAAG	3006	
DB	481	AGGTACAACTAAATACCTCAGAAAACATGAAGGCTCCAGTTGATGGAATTTTTCAGTAAACAAG	540	
QY	3007	CTTAAACCTTAATTCGCCCTTTTCCCTCTTGACTTTTTAAAAAGACGTTCTTCCCTGAGC	3066	
DB	541	CTTAAACCTTAATTCGCCCTTTTCCCTCTTGACTTTTTAAAAAGACGTTCTTCCCTGAGC	600	
QY	3067	ATCATTTAAATGAGTGTGACTGTTTCTTCTCTTTGATAATATGAAGGCTTTGTAGTTTAAAT	3126	

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Db 601 ATCAATTAATGAGTGTGACTGTTCTTCTTCTTGATAATGAAGCTTTGTAGTTTAAAT 660
Qy 3127 TGTGAAGCCAGTCTCTTGTATAGAACTATTATCTAGACATGGAGGCTGAATGTTAG 3186
Db 661 TGTGAAGCCAGTCTCTTGTATAGAACTATTATCTAGACATGGAGGCTGAATGTTAG 720
Qy 3187 CATGCCACAGCAAGGCAATCTTTACACATCTTGTCTTAAATAAATCTAGATTTCACTTG 3246
Db 721 CATGCCACAGCAAGGCAATCTTTACACATCTTGTCTTAAATAAATCTAGATTTCACTTG 780
Qy 3247 CTTTGTCTTTTGAAGAGTGAAGTGTGAGAGAGGAGAACTCATGTGTATCTGTGTGAT 3306
Db 781 CTTTGTCTTTTGAAGAGTGAAGTGTGAGAGAGGAGAACTCATGTGTATCTGTGTGAT 840
Qy 3307 TTTCAAGACCTTTAATCCATTTTGAAGAAATCAATTTTCAATTTTGAATGGTGGCCATG 3366
Db 841 TTTCAAGACCTTTAATCCATTTTGAAGAAATCAATTTTCAATTTTGAATGGTGGCCATG 900
Qy 3367 TGAAGAGTGATGATGCTTTTGTCTGTAGCTTTCAGAAAGCACAGGAGGAGAGCAATG 3426
Db 901 TGAAGAGTGATGATGCTTTTGTCTGTAGCTTTCAGAAAGCACAGGAGGAGAGCAATG 960
Qy 3427 TTGTTCAAGAAAGATCAACAGAGGAGAACTGTCTAGAGCTGTCTGAAATAGGGTGGTT 3486
Db 961 TTGTTCAAGAAAGATCAACAGAGGAGAACTGTCTAGAGCTGTCTGAAATAGGGTGGTT 1020
Qy 3487 TTGGAGGCAATTAATCCCTCTCTGTTGGGGTAAAGCAACGCGAGTGTGTAGTAAAA 3546
Db 1021 TTGGAGGCAATTAATCCCTCTCTGTTGGGGTAAAGCAACGCGAGTGTGTAGTAAAA 1080
Qy 3547 TGCATGACAGACATGAGGAGCAATCAATTTAAATTTCTTTATAGTCTTTGGAGTCTTTG 3606
Db 1081 TGCATGACAGACATGAGGAGCAATCAATTTAAATTTCTTTATAGTCTTTGGAGTCTTTG 1140
Qy 3607 AGATAGAAAGATATCTTTTGGCCCTATGTCAAAGAAAGTATGAAAGGTGAAGGGC 3666
Db 1141 AGATAGAAAGATATCTTTTGGCCCTATGTCAAAGAAAGTATGAAAGGTGAAGGGC 1200
Qy 3667 GGAAGAAAGCAGGAAAGGAACCATGATTTATATATAGAGGCAATGGTGACAAGTTT 3726
Db 1201 GGAAGAAAGCAGGAAAGGAACCATGATTTATATATAGAGGCAATGGTGACAAGTTT 1260
Qy 3727 TTCTTGAATTAATGCAATATGATAGATTAGAGGAATTTTCAGTAGGGAATGCTTTTCACT 3786
Db 1261 TTCTTGAATTAATGCAATATGATAGATTAGAGGAATTTTCAGTAGGGAATGCTTTTCACT 1320
Qy 3787 TGAATTTGGTTCCTCTTCGATTAAGTTTG 3817
Db 1321 TGAATTTGGTTCCTCTTCGATTAAGTTTG 1351
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RESULT 4

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US-09-925-065A-687291
; Sequence 687291, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108927.135
; CURRENT APPLICATION NUMBER: US/09/925, 065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243, 096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252, 147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250, 092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261, 766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289, 846
; PRIOR FILING DATE: 2001-05-09
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; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 687291
; LENGTH: 1108
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-687291
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Query Match 22.8%; Score 1095.6; DB 4; Length 1108;

Best Local Similarity 99.8%; Pred. No. 3.1e-267;

Matches 1106; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

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Qy 1058 TCCTTCCACAGAGACCCCTTACCCCAACTCTCTCTCTTCCCTACCCCTAAGCTAGC 1117
Db 1 TCCTTCCACAGAGACCCCTTACCCCAACTCTCTCTCTTCCCTACCCCTAAGCTAGC 60
Qy 1118 AGGAAGAGTGTCTTGGCAGAGTGTATCAGAGAGTCAATTTGGATCATAGAGTATTGTC 1177
Db 61 AGGAAGAGTGTCTTGGCAGAGTGTATCAGAGAGTCAATTTGGATCATAGAGTATTGTC 120
Qy 1178 TTTTGTCTTTGACTGAGTCACTCTTCTGAGTTTATAGTGGTGAATGGGGTCTGGAACCTTAAG 1237
Db 121 TTTTGTCTTTGACTGAGTCACTCTTCTGAGTTTATAGTGGTGAATGGGGTCTGGAACCTTAAG 180
Qy 1238 TGTACAGAAAGCCGATTTGTTGTTCTTCGAAAAAAGGCAACTCAGGTTCCGTAAGATGA 1237
Db 181 TGTACAGAAAGCCGATTTGTTGTTCTTCGAAAAAAGGCAACTCAGGTTCCGTAAGATGA 240
Qy 1298 GAAAGTGTGGG-AAAACTCTAGCTGTGGAATGATCCATTTAGTCTAAGTTGTTGA 1356
Db 241 GAAAGTGTGGGAAAAAATCATCTAGTGTGGAATGATCCATTTAGTCTAAGTTGTTGA 300
Qy 1357 GGGGAGGGATGTCATGGAGAGAAATTTAGAAGAGAAAGTGGGAAATGGGAAGGCTTAAAG 1416
Db 301 GGGGAGGGATGTCATGGAGAGAAATTTAGAAGAGAAAGTGGGAAATGGGAAGGCTTAAAG 360
Qy 1417 TCGGTGGTGGGTGGGAGACTGTTGCCCTTGTGATGTCAATGGGAAGCCACAAAATCGGAG 1476
Db 361 TCGGTGGTGGGTGGGAGACTGTTGCCCTTGTGATGTCAATGGGAAGCCACAAAATCGGAG 420
Qy 1477 GCGTGTGAATTTGATCGCGCTGAACTTTGAACTATGAAAAAGTTTGAAGTGGAGTGG 1536
Db 421 GCGTGTGAATTTGATCGCGCTGAACTTTGAACTATGAAAAAGTTTGAAGTGGAGTGG 480
Qy 1537 GCCCAGTAAAAAGGCCCTTAGGACTTACTGAAGAGGGCTTAATTTTCACTCAGATGTTTTA 1596
Db 481 GCCCAGTAAAAAGGCCCTTAGGACTTACTGAAGAGGGCTTAATTTTCACTCAGATGTTTTA 540
Qy 1597 TGTACATTTTCTTGTCTTAAGCATGCAATTTTCTGGAGATACGATTTGAGGTTTTATTCCTT 1656
Db 541 TGTACATTTTCTTGTCTTAAGCATGCAATTTTCTGGAGATACGATTTGAGGTTTTATTCCTT 600
Qy 1657 ACAGAAATTTGCATAAACTACTCGCTCTTTCACAAAATGCCAACCTCAGTAGGATTTCCC 1716
Db 601 ACAGAAATTTGCATAAACTACTCGCTCTTTCACAAAATGCCAACCTCAGTAGGATTTCCC 660
Qy 1717 AAGATGAAGAGAGGCTCTCTTGAAGGAAGTCACTGGATTCTGGCGTCCAAAGGAATTC 1776
Db 661 AAGATGAAGAGAGGCTCTCTTGAAGGAAGTCACTGGATTCTGGCGTCCAAAGGAATTC 720
Qy 1777 AAGAGCTCAGGAAATCTAGGTCATCTGTGAAATCTAGGTCATTTGTGGGCAAAATTAATAA 1836
Db 721 AAGAGCTCAGGAAATCTAGGTCATCTGTGAAATCTAGGTCATTTGTGGGCAAAATTAATAA 780
Qy 1837 GAGCTTTAATTCAGGTGAATTTGTAATCTTACCTCCATGGGTGGAGGTTTCATAAAGTTT 1896
Db 781 GAGCTTTAATTCAGGTGAATTTGTAATCTTACCTCCATGGGTGGAGGTTTCATAAAGTTT 840
Qy 1897 CAGCAACAATTAAGATAGTGTGTTGTTTATAGCATATTGAGGTGATGAC 1956
Db 841 CAGCAACAATTAAGATAGTGTGTTGTTTATAGCATATTGAGGTGATGAC 900
Qy 1957 CTGCATATCCAGAGGAATGTGCAAAAGCTGAAGGACACAGTGAAGGAGGTAGGACTGATA 2016
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QY	449	TTTTGGCCCTTTATGATACATATGATGAATTTTTTCCRAAGAGCGGCCCATTCAGTAATCCCAT	508
DB	2443	CTTTGGCCCTTCAGGACACATATCTGAATTTTTATCTACAGAGGCGCATTT--AGAAAGCCA	2500
QY	509	CTGATGATTTTTTTTTCTTATGCCCTCTGTGCAATTTCTTAAACTCATGCAACACATCTG	568
DB	2501	CCCACGACTGCAATCACTTCCATTTCTCTGTGCTCTCTCTGAACTCATACTCTCTTGGC	2560
QY	569	AATTCCTGCTTTTAGTCTTTATGATTTGCTCTCGGGAGACGGGATGGGCACATGCTCAT	628
DB	2561	TACTC-----CTGAGACCCACTGGGACATACATCTCTAC	2595
QY	629	GTATAAATTTTTTTTTCTATTGTCTCAATGCCAGACCTTAGTCTTTTCTTCTTCTTCCAG	688
DB	2596	TTACAGGCTTTTCTTCCATCTCTTGTCAACCAGGCACCTTAGGGTTTC-TCTCTTTTCAG	2654
QY	689	GCTAGCTTGCGTGATACAACAACAGACGTTGCTCAATTGGGGAGAAACTGTTCCACGGA	748
DB	2655	GCCAGCCTTGAGATAACAACACAGACGTCGGCTCATCGGGGAGAAACTGTTCCGAGGA	2714
QY	749	GTCAGTGTAACTACAGTTGTGACCAACAGGCGCGTGTGCGTCCATGGGTACTTGGGGT	808
DB	2715	GTCACTGTAGTCTCTACTGTGATGACGAGGGC-----TAGCTGGGAGCT	2761
QY	809	GGTGGTGATGATGTTTTAGTCTTTATCCCTTATGACCCCTTTCGTGTTTCCCTTCCACTGTC	868
DB	2762	GGTGGACCCCTCGGGATAG---TCTGACGTTATGACCCCTGCTGCTTCTTGTCTTACCTGC	2817
QY	869	AGATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACCTTCAACCTTGAAGMAGTGC	928
DB	2818	AGGCTAAAGATCACTGTCTACTGATGAAGCAGGTGCTCAACTTCAACCTCGAAGACGTTCT	2877
QY	929	TGTTCCCTCAATCTGATAGTTCCAGAGCTTATATGCAGAGAGTGGTGCCTTCTCTGGCCA	988
DB	2878	TGCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCGAGGAGTGGTACCTTTCTCTGACCA	2937
QY	989	GGCTCAGCAACAGGCTAAGCACATGTGTAGTTCAAGTCTTCAGCCTATGCCACCTACCC	1048
DB	2938	AACTCAGCAATCAGTCAGTCTCTGTGTGAAGTCTGACTCTGGCTACCTATGCTCTCTCT	2997
QY	1049	CTCCTTCCCTCTTTCCACAGAGACCCCTTACCCCAACTCTCTCTCTCTCTCTCTCTCTCT	1108
DB	2998	CTTCTCTTTCTATTCCAGTAAACCCGAGGCTCTGCGCTCTCTCTCTTTCACAGAGTGA	3057
QY	1109	TAAGCTAGCAGGAAGAGTGTCTTGGCAGCAGTGTATTACAGGAGTCA-----TTTGGG	1161
DB	3058	GGAGGCGCTCAGCACCAACCATCATAGGCCACTTGAATAGGTCCACAAAGGCTTTTGGC	3117
QY	1162	ATCATAGAGTATTTGCTTTTCTTTGCTAGTCTAGTACATCTTGAGTTTATAGTGGTGAATG	1221
DB	3118	TTCAATTGAGTAACTTTTGTAGTTGTTGTATGAGTGAAGCTTTATTTGTTTATTCATGGAA	3177
QY	1222	GGGTCTGGAACTTAAGTGTCACAGAAGCGCATTGGTTTGTCTTCGGAATAAAGGCAACTC	1281
DB	3178	AGAAATCAACTCAATTTCTGTAGATGAGAAGATGTTGGGAAAGAAAGGCTTAGAT	3237
QY	1282	A-----GGTTGCGTGAAGATGAGAAAGGTGTGG	1309
DB	3238	AGAGAAACAGATCTGCTGAGTATAGTACTTATGGGGGAGCAGGGGGCGATATCCACTGA	3297
QY	1310	GAAACATCTAGCTGTGGAATGGATCCATTGAGTCTTAAGTTGTTGAGGGGAGGGATGG	1369
DB	3298	GTAACAAGTACTTGTGGGGAGAGAAATCCACTGAGTACAAGTACTTGTGGCATGGAGATC	3357
QY	1370	CATGGAGAGAAATTAGAAGAGAAATGGGAAATGGGAGGCTTAAA-----	1415
DB	3358	CACTGAGTACAAGTACTTGTGGGGGAGGGAATGGCAGAGCAAAAGTTGAAGGGAAGG	3417
QY	1416	-----GTCGGTGTGGGTGGCAGACTGTTGCCCTTGTGATGTGATGGGA	1460
DB	3418	AAGATGGAGAGCCCTCATGTTGTGGGGGTGTGAAGAGTCACTCTTTTCCATGTGATGAG	3477

Qy	1461	AGCCACAAATCCGAGGGCGTGTGAACCTTGATGCCGCTGAACATTTGAAACTATGAAAAA	1521
Db	3478	AGTTAAGAAAAACAGT- GTGTGAGTTTGATGTCTTCAGACACCCCAACTATGAACAT	3536
Qy	1521	AGTTTGAGTGGAGTGGGCCAGTAAAGGCCCTAGAGCTTTACTGAAGAGGGCTTAATTTT	1580
Db	3537	ATCCAGAGGAGCGGGAGAGCTGTGGAGACCTTGGCATTTAGGGA--AGSGCGGCTTTT	3594
Qy	1581	CACATGAGATGTTTTATGTACATTTCTTGTTCTAAGCATGCAATTTTCTGGAGATACGAT	1640
Db	3595	CACAGAGAACTTTATGCTCATCTCTGTGCTACACTCCCACTTGTATGATGAGGTTCCAGC	3654
Qy	1641	TGAGGTTTTATTCCTTTACAGAAATTGCGATAAACCTACTCCGCTCTTTCCACAAATGCAAC	1700
Db	3655	TCAGTTTTCTGTTCT-----ACCGTTCTGTACTGTGTGGAAC	3693
Qy	1701	CTCAGTAGGATTTTCCAAAGATGAAGAGGCTCTCTTGTAAGGAGAGTGACTCGATCTCTG	1760
Db	3694	TTCAGTAGGATTTCCCAAGACGAGGACAGCTCTTCTGTAAGGAGGAGCACTGATTTCA	3753
Qy	1761	GGCTCCAAGGGAATCAAGAGCTCAGGAAATCTAGGTCACTGTGTGAAATCTAGTTCATTG	1820
Db	3754	GTGCTCTAGAGAACGAAATAGCTCAGAGATCTAGGTCAACGTGAAATCTAGTCCACAGC	3813
Qy	1821	TGGGCAAAATTAATAAGAGCTTTAAATCCAGGTGAATGTACTGTACCTCCATGGGTTGT	1880
Db	3814	GGGCMAAAATGACTGAACGCTCTAATCCAGGTGAACGGTCACTGCTCAGATATACTG	3873
Qy	1881	GAGTTCATAAAGTTTTTCAGCACACATTAAGATAGTATGCTTGTATTCTGTTTATATAGCA	1940
Db	3874	AGSTATTGGGCTCCCAACCGATAGATTCGTTAGTGA- GTCTGCTTTTATTTTGACGA	3932
Qy	1941	TATTGAAGTGTATGACCTGTCATATCAGAGGAATGTGCAAAAGCTGAAGACACAGTGAA	2000
Db	3933	CATCAGCGGTGACGACCAAGAAATCCAGAGAAATGTCAAGAGCTGAAGAGACAGTGAA	3992
Qy	2001	AAAGGTAGGATGATAACTGTCAATGCTAAGTCAATGCAATAGGAGACAAATGTTGTTT	2060
Db	3993	AAAGGTACTATTGGCAAGCCACAATACTAAGCCATTCAGTAG- GAGACGCTGGGGATTTTC	4050
Qy	2061	TTCTTTCCTTTCCTTTCCATCACTTGTGTGATTTTTCATTTGATTTCTCCTACCACAG	2120
Db	4051	TTTCTGTGCTTCCAGTCCCTTCTACTTTTGTAAATTTATTTGACTTGTCTACTATCTG	4110
Qy	2121	GGCGATTA----CTTTGGTCTGTGTATCTAGATATATCTATATATCTAGATGTCAGTT	2176
Db	4111	GTCAATTTCTGCTTAGCTGCACCTGTATCTAGCTGGGTCTATAGATCTTTCATCTGTG	4170
Qy	2177	TCCAAATCTTGCAAAATGTAGAAATTCAGAACTGGTTGGGATCTTAGCTGTCTAGTCAAC	2236
Db	4171	TCTAAAATTT--GTAAGTCAAAATTCGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTC	4227
Qy	2237	ATAACCTCAGATTTCTGGGATGGTCACTGCGAGAGATAGGGCTAGATGAGGTTCTCTG	2296
Db	4228	ATGAGCATTTGCTCGGAGATGGCTTGTGACAGAGTCAATGCTAGAGACAGACATCCCTG	4287
Qy	2297	AATCCCAAGCCAGCACATTTTCCGGTGGTGCATACAGATTAGTTTGTGTACCATTAATCT	2356
Db	4288	ATTTCCAGCTCTGCAC--TTGCTAGTGGCCATGTGTAATTTACTTTGGCTTGAATTAAGTAT	4346
Qy	2357	TAGGGAATTTTCAGATTTCTTATGACTCATGTAAATCTGAAGAGTACTTGTTTAAAAACA	2416
Db	4347	TTGGGAAA--GCCAGTTTCCCAAGCACCTACATATCTGAAGAACCATGCAATGAAAACTA	4404
Qy	2417	GAAAAATGCCATGGGCAAAATTTATTTGAAGTCAATTTTGAAGTCAATTAATGCATTCGTT	2476
Db	4405	GAAA----GCTGGGCACAAACTTACTAGATGATTTTGGAGTTCATTTAAACCGGATGCTC	4460
Qy	2477	TGAAACTTGGGAAGATAAACTCAGAACAAATGAGAAAAAGCTGGACTTGCATATAGGCT	2536
Db	4461	TGAAATGTGGCAAAATCAACCCAGNATTAACAAAGAGAGCTGATTTTGCAATTAGGACA	4520
Qy	2537	AATTTCTGGA-----GTAATAAACACTTATTTTGAATTAATATAATATCATCAGATA	2589

Db	4521	AGTATTTAGAAATCACTGGTATTAAATAGCTATCATCTTAAATTTAAATAATATAGGCGCTATATA	4580
Qy	2590	TTGATTATATAGTTTAAAAAGCAAGACAGACACAACC-CCGATCTCTTTTATACAGGTTTCAAAT	2648
Db	4581	TATATTTAAGATTAAACACAAGAGTGGATAGCCTCCCAATTTACTTGGCTGGTTTCCAA	4640
Qy	2649	AGAGTAAAAATATTAGTAAAGAGATTTATATATAGTTAAATGGAAGTCTGAAATTTGGTAAAGCT	2708
Db	4641	AGAGTAAAAATATCAGTCATGGATTAATATATAGTGTATGAAAGTATGAGATGGAACACC	4700
Qy	2709	TTTTTTTCTTCCCTCTCTCCCATCAAGACCTTCCATTTCTAGTTTCTTCTTCACTCCCTCA	2768
Db	4701	TTTCCCTTACTTTTACCTTCA-----TTTCTTAGTTTTTTTTTTCTTTCACACCTGA	4752
Qy	2769	ACAAATCCCTAGGAGCAATTTATCCATGGTGGGCTGGTGATACATTTCTATAGTGAATGAT	2828
Db	4753	TCAAGCCACTAGTAAGCACCTATCTGCTGTGAGCTATTATATGACTTTACAGGAAACAC	4812
Qy	2829	ACCATCATGTGGCCTATTGTGTGAAAGAAACA--ACAATGGAAGGCTTAGACTAAACAATA	2886
Db	4813	ATTGCTGTGTGGCCTCTTTGGGGAAGGGAACAGGATAGCAGGAGGCTCAGGCTAGCAAAT	4872
Qy	2887	GTGACTCACCCCAAAACCGGAGGAATGATTTAGGAGCAGTGAAGTGAAGCTCTTT-GCAAG	2945
Db	4873	CTGACTTTGCCCTTAAAGCCAGAGGCAATGGTTGATAGCAGAGAAATGAGGCTCTTCGCAAG	4932
Qy	2946	CAGGTACAACTAAATACTCAGAAACATGAAGGCTCCAGTTGATGGAATTTTTCAGTAACAA	3005
Db	4933	TGGGTGTGCTTAAAGTAATCAGAACAGGAAGGCTCCGGTTGATGGAATATCATAGTAAGAT	4992
Qy	3006	GCTTAACTTAAATTTCCCCCTTTTTTCCCTCTTGACTTTTTTAAAAAGGCTTTCTTCCTGAG	3065
Db	4993	ATCTACCTTTATCTCCTTCTATCGAAC-----TAAATCGTCTCTTTTCTTGTG	5042
Qy	3066	CATCATTTAATAGTGTGACTGTTTCTTCTTTGATTAATTTGAAGGCTTTGTAGTTTAAA	3125
Db	5043	TGTAGGCTGATAAACACACTTGTT--TTCTTTTGAGTGTTCATGGCTTTTGTAGATTTTAA	5100
Qy	3126	TTTGGAAGCCAGTCTCTTGTGTATACAACTATTATCTACACATGGAGGCTCAATGTTA	3185
Db	5101	GTGCTCTGCCAGTCTTGTGTAGAG--GGTTGTGTACCTTGACACCTGGGCTTGGATGTTA	5158
Qy	3186	GCATGCCACAGACAAGGCATGCTTTACACATCTTGTCTTAAAAAATTACTGATTTCACTTT	3245
Db	5159	GCATGCCAACAGGCACACACTTCTGAATGCCCTGTGTAAAGGTTATTATTCACTTACT---	5215
Qy	3246	GCTTGTGTCTTTAGAAAAGTGAAGTGTGAGAGGAGAAATCTCATGGTGA-----	3296
Db	5216	-----TTGTCTTTGGAAAGGTGAAGCGTGTGTAGAAAGAACTCACAGGAGATGTGTCT	5270
Qy	3297	-----TCTGTGTGATTTTCAAGACCTTTAATTCATTTCAATTTTGAAGAATCAATTT	3342
Db	5271	CTGTAGAAAACCTTTTTTTTTTCCCTTAAATGGCTATAATCCACTTTTCAGTCAAC---TT	5327
Qy	3343	TCATATTGCAATGGGTGTGCATGTGGAAGTGAATATGCTTTTTTGTGGTAGCTTCA	3402
Db	5328	TGACTTTTATACCATGCTGTGTACATGAAGAGTGTTTAGGCCCGCTCTCATGCTCTGGG	5387
Qy	3403	GAAAGCA-CAGGAGGGAGAGCAATTTGTGTTTCAGAGAAAGATCAACAGGAGGAGAACTGT	3461
Db	5388	AAAAGCACCAATAGGGGAGGAATGTTATGCTGAGAAATCTGACCGCAGCGGAAACTGGT	5447
Qy	3462	CAGAGCTGTCTGAATAGGGTGGTTTGGGGAGCATTAATTTCCCTCTCTGTGGGGGTAAA	3521
Db	5448	CAGAGCTCCCCCGAAGACCA-----CCACAGGTGTTAATGATAGG	5485
Qy	3522	AGCAGAACCGAGGTGTGTAGTAAAT--GCATGACAGACAGTAGGGGACGATAAATTTAA	3580
Db	5486	AACAGTCCAGGTGGGCTCATGTATATAGATGGAACAGACGGAGGAGATAGCTACAA	5545
Qy	3581	AATTTCTTTATAGTCTCGAGTCTTTGTAGATAGAAAAGAAATATCTTTTGTGGCCTTATGTCA	3640

5546	Db	AGTTTCATATGGGTC-CGGAGTCTTTAAAGATACAAAATAGCTGC--TTGGGCTTCATAACA	5600
3641	Qy	AAAGAACTATCGAAAGG-----TGAAAGGGCGGAAGAAAGACGAGAAAGGAAG	3688
5603	Db	AAGGAAGCTCTGGGNAAGCGACAAGTGAGAGGGAAATGGAAAGGNAAAAACAGAAATGTAG	5662
3689	Qy	AACCATGTATATATAGAGGACAATGGTGACAGAGTTTTCCTTGGAAATTAATGCAAAATATG	3748
5663	Db	AGGACTTTGAACAGACTCAAAATCCTCTACACAGACGAATTTTCTTGGAAACAATCTAGAAGGT	5722
3749	Qy	ATAGATTAGAGGAATTCAGTAGGGGAATGCTTTTCACTTGAATTTGGGTTTCCCTCT--T	3805
5723	Db	AGTGGATTAGGTGATATGCAGGGGACATGCTTTGGCCAATTGAATCTGGGTTTTTGTCTCT	5782
3806	Qy	CGATTAAAGTTTGGGATCCTCATCTGCATTTGACT----TGGAGAGAGAAAGAAATGAATGT	3861
5783	Db	CCATTGAGGTTGAAGGGTCACCTTTTACCTTCGAATGGAGGAGAAAGAGGGGTGT	5842
3862	Qy	TAGGACCTATATCTGGTTTTCTATTAACTAAAGCAAGTGGAAGAAAGACTTATTTGGTATTT	3921
5843	Db	TATGACTCCTACCTGGAGTTTACTAGTTTACGCAATGGAAACAGACACTCGGACCTCCT	5902
3922	Qy	TTCCCAACAAGTGAACAACTTTTCTTTACTGTTTGTCAAAGGTTGGAATATAGAAAAG	3981
5903	Db	CTTGACAAAAAAAATGGAACCTGTGTTGTCTCTGTTTGTCTTTTGTAAAGAAAGCAC	5962
3982	Qy	CCTTAATGTTATGGTGAATACATATGGTTCAAAGTCATTTGAGTAGAGATGTTTTAAATCAG	4041
5963	Db	AGGCAAGCCGACCACTGGGTTGAATGGGTCCTTGAGTCNAGGCTTTTGAGTTGAG	6022
4042	Qy	GAGTGTCCAATCATTTGGCTTCCCTGGACCACTTGAAAGAAATGTCTTGGTACACACAT	4101
6023	Db	CACCTCATCAATAGTT-----GATCATGGTCAGGTGGAGGGC	6058
4102	Qy	AAAATACAGAACAAATAGCTGATGAGCTAAAAAGTCCATGCATTAATCTCATCTGTTT	4161
6059	Db	TACCTGTGAGCGCCGACCTGTGGCTTCGCACTTAACATCTCCAGGTTCTCAATATCACT	6118
4162	Qy	TAAGAAAGTTTATGAATTTCTGTTAGGGTGCAATCAAAGCTGTCTGGGCCATGTGCGGC	4221
6119	Db	TCCTGTACTTTAGCACAGTTTAGGAGTTGAGCAACCTTTTTTTC-----	6163
4222	Qy	CTGTGGGCTGCAGGTTGGACAAGCTCCTTATAGTAAATCTGTCAATAGATAGTTTGGAGC	4281
6164	Db	-----AACCCCCACTAAAAATTTAATTTGACAAAAAGACTGTGTAAATTTG	6205
4282	Qy	TGCAAAACAGGCCAAGCATAATAGGGTGGCACTCGGGGATCCCCAGATCCCAGCTCACT	4341
6206	Db	TGGGATACAGTGTGATAATTGA-----	6227
4342	Qy	TCAGTCTCCTTGCTCTGGTTTAAGAAGGGTGGTCAACTCTCTGCCAGCTTTTAAACAGC	4401
6228	Db	-----TCTATGTGTGCATTTGTGCNAGGTTCAATAGATAGATTAAATAGGCCATCAACAGC	6283
4402	Qy	TTCAATTAGTGTAGGTCACCTGAAATTTGATGCTGCTGTGGGCTCTCTCAGTCCAGAGA	4460
6284	Db	TTTTATGGTGTGAATGCAAGTAATATAGTAGATGCTGTGGTGTCTTAGTCAAGAA	6343
4461	Qy	GCGGTCAATTTTAAGCTCTTTGGCAAAATCATACAATACTAAAGGGATA-----T	4508
6344	Db	GGCATGATTTTAAGTCTTTGGGCAATCATATTATATCTCATGCTAAAAATACATTTATGTT	6403
4509	Qy	TACTATGAATGTTTTACAATGCTTAAAACTCGGTTTTCTGTCTCCATCAACCTTAATCTTG	4568
6404	Db	GATTTAATCTTTTAGAGAGGCTGATCTAGTTTGTGTTTGGTGTCTCAGCAAGCAATGTCA	6463
4569	Qy	CAATTTTCT---AATTTTGTTCATTTTAGAAAACATGGCATAAATGCTCAATACTTTTGA	4625
6464	Db	CCAGCTCTTCTAACTGGTACCACCTTTAGAAAATGCTACCTGTGCTCAAAATTTGGTTGTA	6523
4626	Qy	TTCTTATTTTCAAGCTTTGGAGAGGTGGAGAGATCAAAAGCAATTTGGAGAACTGTGATTTG	4685
6524	Db	TTCTTATTTTTCATAGCTTTGAGAGAGTGGAGAGATCAAGCGAATTTGGGNAATGACACCTG	6583

Db 3537 ATCCAGGAGGCGGAGAGCTGTGGAGACCTCGCATTTAGGGA--AGGCGGCGCTTTT 3594
Qy 1581 CACATGAGATGTTTATGTACATTTCTTGTCTTAAGCATGCAATTTTCTGGAGATACGAT 1640
Db 3595 CACAGGAAACTTTATGCTCATCTCTGTGCTACACTCCACCTTTGATGAGGTTGAGC 3654
Qy 1641 TGAGGTTTATTCCTTACAGAAATTTGCAATAAATPACTCCGCTCTTTCCAAATGCAAAC 1700
Db 3655 TCAGGTTTCGTTTCT-----ACCGTCTCTGTCTACTGTGGGAAC 3693
Qy 1701 CTCAGTAGGATTTCCCAAGATGAGAGGCTCTCTGTAAGGGAAGTGACTGGAATCTG 1760
Db 3694 TTCAGTAGGATTTCCCAAGACGAGGACGCTCTCTGTAAGGAGGACCTGGAATTC 3753
Qy 1761 GCGTCCAAGGGAATTCAGAGCTCAGGAATCTAGGTCACTGTTGAAATCTAGGTCATTG 1820
Db 3754 GTGCTTAGAGNAGCAATAGCTCAGAGATCTAGGTCAAGTGAATCTAGGTCAGC 3813
Qy 1821 TGGCAAAATTAACAGAGCTTTAAATTCAGGGAATGTAAGTCTGTAAGTCTGAGGCTG 1880
Db 3814 GGGCAAAATGACTGAAGCGCTCTATTCAGGTTGAACGGTCAAGTCTGATATACTG 3873
Qy 1881 GAGGTTCAATAAGTTTCAGCACACATTAAGATAGTTATGCTTCTTATTTTATAGCA 1940
Db 3874 AGGTAATGGGCTCCACCGGATAGATTTCTGTTAGTGA-GTCTGCTTTTATTTTGCAGCA 3932
Qy 1941 TATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAGGACACAGTGAA 2000
Db 3933 CATCAGCGGTGACGACAGCAACATCCAGAGATGTCAGAGGCTGAAGGAGACAGTGAA 3992
Qy 2001 AAAGGTAGGACTGATACTGTCAATGTCAATGTCATGCAATAGGAGAGCAAAATTTGTTT 2060
Db 3993 AAAGGTACTATTGCAAGCCACAATACTAAGCCATTCAAGTAG--GAGACGTGGGATTC 4050
Qy 2061 TTCTTCTCTTCTTCTCCATCATTGTTGATTTTCACTGATTTCTCTACCTGATTTCTACCAG 2120
Db 4051 TTTCTCTGCTTCCAGTCCCTTCTACTTTGTAACATTTTATTTGACTTGTCTACTACTG 4110
Qy 2121 GGGGATTA---CTTGGTGTCTGTGTATGTAGATATCTATATATCTAGATGTCAAGTT 2176
Db 4111 GTCCATTTACTCGTTAGCTGACCTGTATCTAGCTGGGTCTATAGATCTTTCAATCTGTG 4170
Qy 2177 TCCAAATCTTGCAAAATGTAGAAATTTAGAACTGGTTGGGACTTAGCTTGTCTAGTCAC 2236
Db 4171 TCTAAATTT--GTAAGTCAAAATTTCTGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTC 4227
Qy 2237 ATAACTCAGATTTCTGGGATGGTCAGTGGCAGAGATAGGCTAGAAATGCAAGTCTCTG 2296
Db 4228 ATGAGCACTTGTCTGGGAGATGGCTTGTGACAGAGTCAATGTCTAGAAAGACAGCATCCCTG 4287
Qy 2297 AATCCCAAGCCAGCACATTTCCCGGTGGTGATACAGATTAGTTTGGTACCATTAATTTCT 2356
Db 4288 ATTCCAGCTCTGCAC--TTGCTAGTGGCCATGTGTAATTTACTTTGGCTTGTATAGTAT 4346
Qy 2357 TAGGGAATTTGAGATTTCTTATTTGACTCATGTATCTGAAGAAGTACTTTGTTTAAACA 2416
Db 4347 TTGGGAAA--GCCAGTTCCACGACCTACATAATCTGAAGAACCATGCAATGGAACCTA 4404
Qy 2417 GAAATATGCTATGGGCAAAATTTATTTGAAAGTCAATTTTGAAGTCAATTAATGCAATGCTT 2476
Db 4405 GAAA---GCTGGGCAAAACTTACTAGAGATGATTTTGGCTCATTAACCGGATGCTC 4460
Qy 2477 TGAACCTTGAAGAAATAAATCTCAGAACATGAGAAAGAGCTGGACTTGCATATAGGCT 2536
Db 4461 TGAATGTGGCAAAATCAACCCAGAAATPACACAAAAGAGCTGGATTTGCAAAATAGGACA 4520
Qy 2537 AATTTCTGGA-----GTAATAACACTTATTTTGAATTTATCATATATCTATCAGATA 2589
Db 4521 AGTATTTAGAAATCACTGTTATTAAGCTATCATCTTAAATTAATAATAGGCTATATA 4580
Qy 2590 TTGATTTAGTTTAAAGGAGAGGACAGCAACC--CGCATCTCTTTTATACAGGTTCAAT 2648

Db 4581 TATATTTAAGATTAACACAAAGAGTGGATAGCCTCCCAATTTACTTGGCCTGGTTTCAAA 4640
Qy 2649 AGAGTAAAAATATATTAGTAAGAGATTTTATTAGTTAAATGGAAGTCTCAATTTGTAAGCT 2708
Db 4641 AGAGTAAAAATATACAGTCATGGATTAATATTAGTGTATGAAAGTATGAGATGGAACCC 4700
Qy 2709 TTTTCTTCTCTCTCTCCCATCAAGACCTTCCATTCAGTTCTTCTTCTTCTTCTTCTTCTCA 2768
Db 4701 TTTCTTACTTTTTTACCTTCA-----TTTCTTAGTTTTTTTTTTTTTCTTCTTCTTCTTCA 4752
Qy 2769 ACAAATCCCTTAGGAGGCAATTTATCCATGTGGTGGCTGGTGTACATTTCTATAGTGAATGAT 2828
Db 4753 TCAAGCCACTAGTAAGACCTATCTGCTGTGAGCTATTATATGACTTTTACAGCAAAAC 4812
Qy 2829 ACCATCATGTGGGCTATTTTGGTGAAGAAACA--ACAATGGAAGGCTTAGACTAACATA 2886
Db 4813 ATTGCTGTGGCTCTTTTGGGAAGGAAACAGATAGCAGGAGGCTCAGGCTAGCAAGT 4872
Qy 2887 GTGACTCACCCCAAAACCGGAGGAATGATTAGGAGCAGTGAAGTGAAGTCTT--GCAAG 2945
Db 4873 CTGACTTGGCCTTAAGCCAGGAGCATGGTTGATAGCAGAGAAAGTGAAGGCTCTTTCGCAAG 4932
Qy 2946 CAGTACAACTAAATCTCAGAAACATGAAGGCTCCAGTTGATGGAATTTTCACTAACAA 3005
Db 4933 TGGGTGTGCTTAAGTAATCAGAAACAGGAAGGCTCCGGTTGATGGAATTTATCAGTAAGAT 4992
Qy 3006 GCTTAACCTTAATTTCCCTCTTTTCCCTCTTGAATTTTAAAAAAGCGTTTCTTCTCTGAG 3065
Db 4993 ATCTACCTTATCTCTTCTATCGAAC-----TAAATCGTCTCTTTTCTTGTG 5042
Qy 3066 CATCATTTAATGAGTGTGACTGTTTCTTCTTGTATTAATGAAAGGCTTTGAGTTTAAA 3125
Db 5043 TGTAGGCTGATAAACACACTTGT--TTCCTTTGAGTGTTCATGGCTTGTAGATTTTAA 5100
Qy 3126 TTGTGAAGCCAGTCTCTTGTGTATAGAACTATTATCTAGACATGAGGAGCTGAATGTTA 3185
Db 5101 GTGCTCTGCGAGTCTTGTGTAGAG--GGTTGTGTACCTTGACACCTGGGCTTGAATGTTA 5158
Qy 3186 GCATGCCACAGACAGGATGCTTTTACATCTTGTCTTAAAAAATTAATGATTTTCACTTT 3245
Db 5159 GCATGCCAAGGCACACACTTCTGNAATCCCTGTGTAAAGGTTATTATTCACTTACT--- 5215
Qy 3246 GCTTGTGTCTTTTGAAGAGTGAAGTGTGAGAGGAGAAATCTCAAGGTGA----- 3296
Db 5216 ----TTGTCTTTGGAAGGTGAAGCGTGTGTGAGAAAGAACTCACAGGAGATGTGTCT 5270
Qy 3297 -----TCTGTGTGATTTTCAAGACTTTTAACTTAACTTCCATTTTGAAGATCAAT 3342
Db 5271 CTGTAGGAAACTTTTTTTTTTCCCTTAAATGCTATAATCCACTTTTCACTCAAC---TT 5327
Qy 3343 TCATATTTGCAATGGGTTGCCATGTGGAAGAGTATTATGCTTTTGTGCTGGTAGCTTCA 3402
Db 5328 TGACTTTTATACCATGCTGTCAATGAAAGAGTGTTTAGGCCGCTCTCATGGCTCTGGG 5387
Qy 3403 GAAAGCA--CAGGAGGAGAGCAATTTGTTTCAAGAAAGATCAACAGGAGAGAGAACTGT 3461
Db 5388 AAAAGCAACCAATAGGCGAAGGAATGTTATGCTGAGAAATCTGACCGGACAGGAACTGGT 5447
Qy 3462 CAGAGCTGTGAAATAGGCTGGTTTGGGAGGCAATTAATCCCTCTCTGCTTGGGGTAAA 3521
Db 5448 CAGAGCTCCCCCAAGACCA-----CCACAGGTGTTTAAGTAGG 5485
Qy 3522 AGCAGAACGAGGTTGGTAGTAAAAT--GCATGACAGACAGTAGGGGACGATAACTTTAA 3580
Db 5486 AACAGTCCAGGTTGGGCTCATGTAAATAGAAATGGAACAGAGGAGGAAGATAGCTACAA 5545
Qy 3581 AATTTCTTTATGCTTTGGAGTCTTTGAGATGAGAAAAAATATCTTTTGGCTTTATGCTCA 3640
Db 5546 AGTTTCATAGGCTC--CGAGTCTTTAAAGATACAAAATAGCTGC--TTGGGCTTCATAACA 5602
Qy 3641 AAAGAAGTATGGAAGG-----TGAAGGGCGGAAGAAAGCAGAGAAAGAG 3688
Db 5603 AAGGAAGTCTGGGAAGGCAGCAAGTAGAGAGGGAATTGAAGGGGAAAAAACAAGATGTAG 5662

Qy 3689 AACCATGTATTATATAGGACCAATGCTGACAAGTTTTTCTTTGAAATAATGCAAAATATG 3748
Db 5663 AGGACTTGAACAGCTACAAATCCTCTACACAGATTTTTTCTTGGAAACAATCTAGAGGT 5722
Qy 3749 ATAGATTAGAGGAATTTCACTAGGAAATGCTTTTCACTTGAATTTGGGTTTCCCTCT--T 3805
Db 5723 AGTGATTAGGTGATTGACGGGGACCTGCTTTGGCCATTTGAAATCTGGGTTTTTGTCTCT 5782
Qy 3806 CGATTAAAGTTGGATCCTCATCTGCAATTTGACT-----TGGAGAGAGAAAGATGAATGT 3861
Db 5783 CCATTGAGTTGAAGGCTCACCTTTTACCCCTCGAATGGAGGAGGAGAAAGAGGGGTGT 5842
Qy 3862 TAGGACCTATATCTGGTTTTCTATTAACTAAAGCAAGTGAAAGAGACTTATTTTGGTATTT 3921
Db 5843 TATGACTCTTACCTGGAGTTTTACTAGTTTACGCATTTGGAACAGACACTCGGGACCTCCT 5902
Qy 3922 TTCCACAAAAGTGAATACTTTCTTTTACTGTTTGTCAAAAAGGTGGAATAGAAAAG 3981
Db 5903 CTTGACAAAAAATGGAACCTGTGTTGTCTTGTGTTGTTTGTGTTTAAAGAAAGCAC 5962
Qy 3982 CCTTAATGTATGTGTAATACATCGTTCAAAGTCATTTGAGTAGAGATGTTTTAAATCAG 4041
Db 5963 AGGCAAAAGCCGACCAATGGGTTGAATGTGGGTCTTTTGAGTCAAGGCTTTTGAGTTGAG 6022
Qy 4042 GAGTGTCCAATCATTTGCTTCCCTGGACACCTTGAAAGAAATGCTTGTGTACACACAT 4101
Db 6023 CACTCATCAATAGTT-----GATCATGTCAGGTGGAGGGC 6058
Qy 4102 AAAATACAAGAAACAATAGCTGATGAGCTTAAAAAGTCCATGCAATAAATCTCATACTGTTT 4161
Db 6059 TACCTGTGACGCCGAGCCCTGCTGGCTTGGCACTTAAACATCTCCAGGTCTCAGTATCACT 6118
Qy 4162 TAAGAAAGTTTATGAATTTCTGTAGGTTGCAATTTCAAAGCTGCTCTGGGCCATGTGGGC 4221
Db 6119 TCCTGCTACTTAGCACAGTTAGGAGTTGAGCAAAACCTTTTTTTTCC----- 6163
Qy 4222 CTGTGGGCTGCAGGTTGGACAAGCTCCTTTAAGTAATCTGTCATAGATAGTTTGGAGC 4281
Db 6164 -----AACCCCACTAAATTTAATTTGACAAAGACTGTGTAATTTG 6205
Qy 4282 TGCAAAACAGGCCCAAGGATTAATGGGTGGCACTCGGGATCCCCAGATGCCAGGCTCACT 4341
Db 6206 TGGGATACAGTGTGATAATTGA----- 6227
Qy 4342 TCAGTCTCCTTCTGCTGTGTTAAGAAAGGGGTGGTCAACTCTCTGCCAGCTTTTAAACAGC 4401
Db 6228 ----TCTATGTGTGCAATTGTGCAAGGTTTCAATAAGATAGATTAAATAGGCCCATCAACAGC 6283
Qy 4402 TTCAATTAGTGTGAGGTGCACCTGAAATTTGATGCCCTGTGTTGGGCT-CTCAGTCCAGAGA 4460
Db 6284 TTTATGGGTGGAATGCAAGTAATATAGGTAGATGCTGTGGTGTCTTATAGGTCAGAA 6343
Qy 4461 GCCGTCATTTTAAAGCTCTTTGGCAAAATCATACAATACTATAAGGGATA-----T 4508
Db 6344 GGCATGATTTTAAAGTCTTGGGCAAAATCATATTACTCATGCTAAAAAATACATTATGTT 6403
Qy 4509 TACTATGAATGTTTACAAATGCTTAAATCTCGGTTTCTGCTCCATCAACCTTAATCTTG 4568
Db 6404 GATTATTAATCTTTTAGAAGAGGCTGATCTTGGTTTGGTGTCTCAGCAAGCAAAATGTCA 6463
Qy 4569 CAATTTCT--ANTTTGTTCATTTTAGAACAATGGCATAAATGCTCAAAATCTTTTGCA 4625
Db 6464 CCAGCTCTTCTTAACCTGTATCACTTTTAGAAAAATGCTACCTGTGCTCAAAATGGTTTGT 6523
Qy 4626 TTTCTTATTTTTCACAGCTTGGAGAGAGTGGAGAGATCAAGCAATTTGGAGAACTTGGATTG 4685
Db 6524 TTTCTTATTTTTCATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTTGGGGAACCTGACCTG 6583
Qy 4686 CTGTTTATGCTCTGAGAAATGCTTGCAATTTGACACAGAGCAAGCTGAAAAATGATTAAC 4745
Db 6584 CTGTTTATGCTCTGAGAAATGCTTTCGCTGTGAGCGAGAGAGAGCTAGAAAAACGAGAAC 6643

Qy 4746 TAACCCCTTTTCCTCTCTAGAAAATAACAATTAGATGCCCCAAAGCGATTTTT 4797
Db 6644 TGCTCCTTCTGCTTCTTAAAGAAACAATAAGATCCTCGAATGGACTTTTT 6695

RESULT 9

US-09-751-797-29
; Sequence 29, Application US/09751797
; Patent No. US20010024652A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: (TIFs) The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/09/751.797
; CURRENT FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 29
; LENGTH: 5935
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-09-751-797-29

Query Match 13.6%; Score 650; DB 3; Length 5935;
Best Local Similarity 56.5%; Pred. No. 1.9e-153;
Matches 1863; Conservative 0; Mismatches 1285; Indels 152; Gaps 29;

Qy 29 CTCCTCCCAAGTCCAGTTCGCTGAGTTAGATTCTGCAATGCGCGCCCTGCGAGAA 88
Db 356 CTCCTCCCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGTCTCTCGCAGAA 415
Qy 89 ATCTGTGAGCTTTTCTTATGGGACCTGGCCACACAGCTGCTCTCTCTTTGGCCCT 148
Db 416 ATCTATAGGTTTTTCCCTTATGGGACTTTGGCCGACAGCTGCTCTCTCATTTGCCCT 475
Qy 149 CTTGGTACAGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCGAGGTTGCAAGTCCAA 208
Db 476 GTGGGCCCAAGGAGCAAAATGCGTGCCTCAACACCCGGTGCAAGCTTGAGGTGTCCAA 535
Qy 209 CTTCCAGAGCCCTATATACCAACCGACCTTCATGCTGGCTAAGGAGGTATATCTC 268
Db 536 CTTCCAGAGCCGTACATCGTCAACCCGACCTTTATGCTGGCCCAAGGAGGTACAGTCA 595
Qy 269 AATCCTGCTCTTCTGTTGGATCTACTTGGAAATCCAAATAGTTCTTAAACTTTTCTTCA 328
Db 596 TCTCTTTCTCTCCATACCGCCTTGCATTTCTCTGAAGCACTTGCAAACTCTTTAGGGGC 655
Qy 329 GAGCATCTCTAAGAGCTTTTAGGAAACCACTGTTTATCCCTGAGGGTAGATAAATTTCTG 388
Db 656 GCTTTATCTCCGAGGCTCTACTACCTATGTTTCTGTCT-----CTTTAGAG 703
Qy 389 TTTTTCAGAGACTCTTTTGGGAATCTGGCTTTTTTTTTTTTCTTGAACCTTCTCTCTCCAT 448
Db 704 ACTCTTTAAGGACTGGATCTTTTTCTATTCTATTCTTCAAGGTCTCAGGACCATTTCTTAT 763
Qy 449 TTTGGCCTTTATGATACATATGATGAATTTTTTCCAAAGAGCGGCATTCAGTAAATCCAT 508
Db 764 CTTGGCCTTTAGGACACATATACCTGAATTTTATCTACAGAGCGCGTT--AGAAAGCCA 821
Qy 509 CTGATGATTTTTTTTTTCTTTATGCTCTGCAATTTGTTTAAACTATGACACATCTG 568
Db 822 CCCAGACTGCAATACTTTTCCATCTGTGTGTCTCTCTCTGAACTCATCTCTCTTGGC 881
Qy 569 AATTCTGCTTTTAGTCTTTTATGATGTTGCTCTGGGAGACGGGATGGGGACATCTCTAT 628
Db 882 TACTC-----CTGAGACCCCATGCGGACATACATCTCTAC 916

1222 GGGTCTGGAACTTAAGTGTACAGAAAGCGCATTTGGTTTGTCTTCGGAAAAAGCAACTC 1281
1499 AGAAATCAACTCAAAATCTGTGAGATGAGAAAGATGTTGGGAACGAAAAAGCGCTAGAT 1558
1282 AGGTTGCGTAA--GATGAGAAAGGTGTTGGGAAAAATCTAGTGTGGAAATGGATCCA 1338
1559 AGAGAAACAGATCTGCTGTGAGTACAGTACTTATGCGGGGGGGGGGCGAGGGCGGATATCCA 1618
1339 TTGAGTCTAAAGTCTGTCAGGGGAGCGGATGCGATGAGAGAGAAATAGAGAGAAAGTGGG 1398
1619 CTGAGTCTCAAGTACTTGTGAGAGAGAAATCCACTGAGTACAGTACTTGTGGGGGAAG 1678
1399 AAATGGGAAGGCTTAAAGTGGTGGTGGTGGGAGACTGTTGCC-----TGTGTA 1450
1679 AATGCCACAGAGCAAAAGTTGAAGGGAAAGAGGAAGATGAGAGGCGCTCAATGTTGGGG 1738
1451 TGTATCGGGAAGCCACAAATCGGAGCGGTGTGAATGATGCCGCTGGAACATTTGAAC 1510
1739 TGTGAAGGTCACCTCTTTTCCATGTGTGAGAGTTAAGAAATCAGTGTGTGAGTT 1798
1511 TATGAAAAAAGTTTGAAGTGGGCGCCAGTAAAGGCCCTAGGACTTACTGAAGAGG 1570
1799 TGATGCTTCAAGACCCCAACTATGCGAGACTGTGGAGACCTGGCAATTTAGGGA--AGG 1857
1571 GCTTAAATTTTCAATGAGATGTTTTATGTACATTTCTTGTCTAAGCATGCAATTTTCTG 1630
1858 CGCGGCTTTTCAACAGAGAACTTTATGCTCATCTCTTGTGTACACTCCACACCTTTGAT 1917
1631 GAGATAGATTTAGGTTTTATCTTACAGAAATTTGATTAACACTACTCCGCTCTTCCAC 1690
1918 GAGGTTAAGCTCAGGTTTGGTTCT-----ACCGTTCTTGTCTAC 1956
1691 AAATGCAAACTCAGTAGGATTTCCCAAGATGAAGAGAGTCTCTTGTGAAGGAAGTGA 1750
1957 TGGTGAAGATTCAGTAGGATTTCCCAAGACGAGAGAGCTCTTCTGTGAAGGAGGAC 2016
1751 CTGGATTTCTGCGTCCAAAGGGAATTCAGAGCTCAGGAAATCTAGGTCACCTGTTGAATC 1810
2017 CTGGATTTCAAGTCTCAGAGAACGAATAGCTCAGAGAACTAGGTCACAGTGAATCT 2076
1811 TAGTCAATTTGGGCAAAATTAAGAGCTTTAAATCCAGGTGAATTTGACTGTACTCTC 1870
2077 AGGTCAAGCGGGCAAAATGACTGAACGCTCTATTTCCAGGTGAACGGTCAAGTGCCTC 2136
1871 CATGGGTGTGAGTTTCATAAAGTTTCAGACACACATTAAGATAGTTATGCTGTTATTG 1930
2137 AGATATCTCAGGTAATTTGGGCTCCACCGGATAGATTTCTGTAGTGA--GTCTGCTTTTA 2195
1931 TTTTATAGCATATTTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAG 1990
2196 TTTTGCAGCACATCAGTGGTGAAGACAGAACATCCAGAGAAATGTGCAAGGCTGAAG 2255
1991 ACAGAGTAAAAAGGTAGGACTGATTAATCTGTAATGCTAAAGTCAATGCAATAGAGAGACA 2050
2256 AGACAGTGAAGAAAGGTACTATTGGCAAGCCACATATCTAAGCCATTCAGTAGGAGAGTG 2315
2051 AATGTTGTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 2110
2316 GGGATTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 2373
2111 CTACCAAGGAGGGAATTT-----ACTTTGGTGTCTGTGTATGTAGATATATCTATATCTA 2166
2374 CTACTGTCTGGTCCATCTACTACTTACTGTGCACTGTGATCTAGTGGTCTCTATAGATCTT 2433
2167 GATGTCAGTTTCCAAATCTTGAAGATTTGTAGAAATTTAGAACTGGTGGGATCTTAGCTT 2226
2434 TCAATCTGTGTCTAAATTT---GTAAGTCAAAATTTCTGGAGCTAGCAGAGAAAGCTTAGCTC 2490
2227 GTCTAGTCAATACCTCAGATTTCTGGGATGTCAGTGGCAGAGATAGGCTTAGATGC 2286
2491 AGCCAGTCTCATGACCTTGTCTGGAGGATGGCTTGTGACAGAGTCAATGCTTAGAGAC 2550

RESULT 11

US-10-027-632-208140
; Sequence 208140, Application US/10027632
; Publication No. US20020198371A1

2287 AGGTCTCTGAATCCCAAGCCAGCACCTTTTCCGGTGGTGATACAGATTAAGTTTGGTAC 2346
2551 AGCATCCCTGATTTCCAGCTCTGCAC--TTGCTAGTGGCCAGCTGTAATTAATTACTTTAGCCT 2609
2347 CATTAATCTTAGGGAATTTAGATTCCTATTGACTCATCTGTAATCTGGAAGAGTACTTG 2406
2610 GATTAAGTATTTGGGAAA--GCCAAATTTCCACCGACCTACATAATCCGAAGAGCATGCA 2667
2407 TTTAAAAACAGAAAAATGCTCATGCGCAAAATTTATTGGAAGTCATTTTTCGAAGTCATTAA 2466
2668 TTGAATACTAGAAA-----GCTGGGCACAACTTACTAGAGATGATTTTGGAGCTCATTA 2723
2467 TGCAATGCTTTGAACTTGAAGAAATAAATCAGAAATAAGAGAGAGCTGAGCTGTC 2526
2724 ACTGATGCTCTGAAATGCTGATCAATCAACCCAGAAATAACAACAAAGAGAGCTGATTTGC 2783
2527 ATATAGGCTTAATTTCTGGAGTAAATAACACTTAT-----TTTGAATATCATATA 2578
2784 AATAGAGCAAGTATTTAGAAATCACTGGTATTAACAGCTGTCTATTTAAATAATAG 2843
2579 TCT---ATCAGATATTAATGATTATATAGTTTAAAAAGCAAGAGCAGACAAC--CCGATCTCTTT 2634
2844 TGTCTATTTAGCTGCCTATTTAAGATTTAAACAGAGTGGATAACTTCCCAATTTACTG 2903
2635 ATACAGGTTCAATAGAGTAAAAATATTAGTAAGAGATTTATTATAGTTAAATGGAAAGTC 2694
2904 GGCCTGGTTTCAATAGAGTAAAAATATCAGTCATAGATTAATATTAGTGTGATGAGAAAGTA 2963
2695 TGAATTTGGTAAAGCTTTTCTTCTCTCTCTCTCCATCAAGACCTTCCATTTCTAGTTCTT 2754
2964 TGAGTTGGAAAC--CTTTCTCTTACTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 3020
2755 CTTTCTCTCTCTCAACAAATCTCTAGGAGCATTTATCCATGTGGGCTGGTGACATTT 2814
3021 TCTTCAACCTCTGATCAAGCACTAGTAAGACATATCTCTCTGGAGCTATTATATGACT 3080
2815 CTATAGTGAATGATACCATCATCTGCGCTATTATTTGGTGAAGAAACA--ACAATGGAAAGC 2872
3081 TTACAGCAAAACAATTTGCTGTGCGCTCTTTTGGGGAAGGGAACAGGATAGCAGGAGGC 3140
2873 TTAGACTTAACA--TAGTGACTCACCCCAACCGAGGAATGATTAGGAGCAGTGAAGT 2931
3141 TCAGGCTAGCAAGTCTGGACTCAACCTTAAAGCCAGAGGCACTGGTTGATAGCAGAGAAAGT 3200
2932 GAGGCTCTT--GCAAGCAGGTGACAACTAAATACTCAGAAACATGAAGGCTCCAGTTGATGG 2990
3201 GAGGCTCTTCAAGTGGGTGCTTAAAGTAATCAGAAACAGAGGCTCTGGTTGATGG 3260
2991 AATTTTCAGTAAACAAGCTTAACTTAAATCCCCCTTTTCCCTCTTGAACCTTTTAAAAAAA 3050
3261 AATTATCAGTAAGATATCTACCTTATCTCC-----TTCTTCTATAGAAGCTTAAACCG 3313
3051 GCGTTTCTCTCTGAGCATCATTTAATGAGTGTGACTGTTCTTCTCTTGTATTAATTGAAGG 3110
3314 TCTCTCTCTTCTGTGTGTAGGCTGATAAACACACGCTTGT--TTCTTTTGTAGTGTCTAGG 3371
3111 CTTTGTAGTTTAAATTTGTAAGCCAGTTCTCTTGTATATAGAACTATTATCTAGACATG 3170
3372 CTTTGCAGATTTTCAAGTGTCTCTGCCAGTCTTGT--TAGAGGTTTGTGTACCTTGACACC 3429
3171 GAGGGCTGAATTTAGCATGCCACAGAGGCGATGCTTTTACACATCTCTGCTTTAAAAAAT 3230
3430 TGGGCTTGGATGTTAGCATGCCAAAGGCAACACTTCTGAATGCTGTGTAAAAAGTTAT 3489
3231 TACTGATTTTCACTTCTGTTGTCTTTTGAAGAAAGTGAAGTGTGAGAGAGAGATCTCA 3290
3490 TATTCTATTACT-----TTGCTCTTGGAAAGGTGAAGTGTGTGTGAGAAAGACTCA 3541

QY 3767 AGTAGGAATGCTTTTCACTTGAATTTGGGTTTCTCTTTCGATTAAGTTTGGGATCCTCA 3826
|
|
|
Db 481 AGTAGGAATGCTTTTCACTTGAATTTGGGTTTCTCTTTCGATTAAGTTTGGGATCCTCA 540
|
|
|
QY 3827 TCTGCAATTCGACTGGAGAGAGAAAGATCAATGCTTAGGACCTATATCTGTTTCTATT 3886
|
|
|
Db 541 TCTGCAATTCGACTGGAGAGAGAAAGATCAATGCTTAGGACCTATATCTGTTTCTATT 600
|
|
|
QY 3887 AACTAAAGCAAGTGGAAAGACCTATTGTTGTTATTTT 3923
|
|
|
Db 601 AACTAAAGCAAGTGGAAAGACCTATTGTTGTTATTTT 637
|
|
|

RESULT 13

US-10-027-632-208142
; Sequence 208142, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; POLYMORPHISMS IN THE HUMAN GENOME
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 208142
; LENGTH: 637
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-208142

Query Match 12.8%; Score 611.8; DB 5; Length 637;
Best Local Similarity 99.2%; Pred. No. 2.4e-144;
Matches 632; Conservative 3; Mismatches 0; Indels 2; Gaps 2;
QY 3289 CATGGTGATCTGTGATTTTCAAGACCTTTAATCCA-TTTTGAAGAATCAATTTTCATA 3347
|
|
|
Db 1 CATGGTGATCTGTGATTTTCAAGACCTTTAATCCA-TTTTGAAGAATCAATTTTCATA 60
|
|
|
QY 3348 TTTGCAATGGGTTGCCATGTGGAAGAGTGAATGCTTTTTCCTGCTAGCTTCAGAAAG 3407
|
|
|
Db 61 TTTGCAATGGGTTGCCATGTGGAAGAGTGAATGCTTTTTCCTGCTAGCTTCAGAAAG 120
|
|
|
QY 3408 CACAGGAGGAGAGCAATGTTGTTCA-GAGAAAGATCAACAGGAGGAGAACTGTCTAGAG 3466
|
|
|
Db 121 CACAGGAGGAGAGCAATGTTGTTCA-GAGAAAGATCAACAGGAGGAGAACTGTCTAGAG 180
|
|
|
QY 3467 CTGCTCAATAGGTTGGGAGGCAATTAATCCCTCTGTTGGGGTAAAGCAG 3526
|
|
|
Db 181 CTGCTCAATAGGTTGGGAGGCAATTAATCCCTCTGTTGGGGTAAAGCAG 240
|
|
|
QY 3527 AACGCAAGTTGGTAGTAAATGCAATGACAGACAGTGGGACGATAAATTTTAAATTC 3586
|
|
|
Db 241 AACGCAAGTTGGTAGTAAATGCAATGACAGACAGTGGGACGATAAATTTTAAATTC 300
|
|
|
QY 3587 TTATAGTCTTGGAGTCTTTCAGATAGAAAAGAAATATCTTTTGGCCCTTATGTCAAAAGAA 3646
|
|
|

Db 301 TTATAGTCTTGGAGTCTTTGAGATAGAAAAGAAATATCTTTTGGCCCTTATGTCAAAAGAA 360
|
|
|
QY 3647 GTATGGAAGGTGAAGGGCGGAGAAAGCAGAGAAAGGAAACCATGTATTATATAGA 3706
|
|
|
Db 361 GTATGGAAGGTGAAGGGCGGAGAAAGCAGAGAAAGGAAACCATGTATTATATAGA 420
|
|
|
QY 3707 GGCATATGTCACAAAGTCTTTTCTTGAATAATGCAAAATATGATAGATTAGAGGAATTC 3766
|
|
|
Db 421 GGCATATGTCACAAAGTCTTTTCTTGAATAATGCAAAATATGATAGATTAGAGGAATTC 480
|
|
|
QY 3767 AGTAGGGAATGCTTTTTCACCTTGAATTTGGGTTTCTCTTCTCGATTAACTTTGGGATCCTCA 3826
|
|
|
Db 481 AGTAGGGAATGCTTTTTCACCTTGAATTTGGGTTTCTCTTCTCGATTAACTTTGGGATCCTCA 540
|
|
|
QY 3827 TCTGCAATTTGACCTTGGAGAGAGAAAGATCAATGTTGTTATTTT 3923
|
|
|
Db 541 TCTGCAATTTGACCTTGGAGAGAGAAAGATCAATGTTGTTATTTT 600
|
|
|
QY 3887 AACTAAAGCAAGTGGAAAGACCTATTGTTGTTATTTT 637
|
|
|

RESULT 14

US-10-027-632-208140
; Sequence 208140, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; POLYMORPHISMS IN THE HUMAN GENOME
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 208140
; LENGTH: 637
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-208140

Query Match 12.8%; Score 611.8; DB 6; Length 637;
Best Local Similarity 99.2%; Pred. No. 2.4e-144;
Matches 632; Conservative 3; Mismatches 0; Indels 2; Gaps 2;
QY 3289 CATGGTGATCTGTGATTTTCAAGACCTTTAATCCA-TTTTGAAGAATCAATTTTCATA 3347
|
|
|
Db 1 CATGGTGATCTGTGATTTTCAAGACCTTTAATCCA-TTTTGAAGAATCAATTTTCATA 60
|
|
|
QY 3348 TTTGCAATGGGTTGCCATGTGGAAGAGTGAATGCTTTTTCCTGCTAGCTTCAGAAAG 3407
|
|
|
Db 61 TTTGCAATGGGTTGCCATGTGGAAGAGTGAATGCTTTTTCCTGCTAGCTTCAGAAAG 120
|
|
|
QY 3408 CACAGGAGGAGAGCAATGTTGTTCA-GAGAAAGATCAACAGGAGGAGAACTGTCTAGAG 3466
|
|
|
Db 121 CACAGGAGGAGAGCAATGTTGTTCA-GAGAAAGATCAACAGGAGGAGAACTGTCTAGAG 180
|
|
|
QY 3467 CTGCTCAATAGGTTGGGAGGCAATTAATCCCTCTGTTGGGGTAAAGCAG 3526
|
|
|

Db	181	CTGTCTGAATAGAGTGGTTTGGAGGCAATTAATCCCTCTCTGTTGGGGTAAAGCAG	240
Qy	3527	AACGCAAGTTGGTGTAGTAAATGCAATGACAGACAGTAGGGACGATAAACTTTAAATTC	3586
Db	241	AACGCAAGTTGGTGTAGTAAATGCAATGACAGACAGTAGGGACGATAAACTTTAAATTC	300
Qy	3587	TTATAGTCTTGGAGTCTTTGAGATAGAAAAGAAATATCTTTTGGCCCTTATGTCAAAAGAA	3646
Db	301	TTATAGTCTTGGAGTCTTTGAGATAGAAAAGAAATATCTTTTGGCCCTTATGTCAAAAGAA	360
Qy	3647	GTATGGAAGAGTGAAGCGGGAAGAAAGCAGGAGGAGGAGAAACCATGTATTATATAGA	3706
Db	361	GTATGGAAGAGTGAAGCGGGAAGAAAGCAGGAGGAGGAGAAACCATGTATTATATAGA	420
Qy	3707	GGACAATGGTGACAAGGTTTCTTGAATTAATGCAAAATATGATAGATTAGAGGAATTC	3766
Db	421	GGACAATGGTGACAAGGTTTCTTGAATTAATGCAAAATATGATAGATTAGAGGAATTC	480
Qy	3767	AGTAGGGAATGCTTTTCACTTGAATTTGGGTTTCTCTCGATTAAAGTTTGGGATCCTCA	3826
Db	481	AGTAGGGAATGCTTTTCACTTGAATTTGGGTTTCTCTCGATTAAAGTTTGGGATCCTCA	540
Qy	3827	TCTGCATTTGACTTTGGAGAGAGAAAGATGAATGTTAGGACCTATATCTGGTTTCTATT	3886
Db	541	TCTGCATTTGACTTTGGAGAGAGAAAGATGAATGTTAGGACCTATATCTGGTTTCTATT	600
Qy	3887	AACTAAAGCAAGTGGAAAGACTTATTTTGGTATTTTT	3923
Db	601	AACTAAAGCAAGTGGAAAGACTTATTTTGGTATTTTT	637

RESULT 15
US-10-027-632-208141
; Sequence 208141, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 208141
; LENGTH: 637
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-208141

Query Match 12.8%; Score 611.8; DB 6; Length 637;
Best Local Similarity 99.2%; Pred No. 2,4e-144;
Matches 632; Conservative 3; Mismatches 0; Indels 2; Gaps 2;

Qy	3289	CATGGTGATCTGTGTGATTTTCAAGACCTTTAATCCA-TTTTGAAGAATCAATTTTCATA	3347
Db	1	CATGGTGATCTGTGTGATTTTCAAGACCTTTAATCCAATTTTGAAGAATCAATTTTCATA	60

Qy	3348	TTTTCATAGGTTGCCATGTGGAAGAGTGAATATGCTTTTTTCTGTAGCTTCAGAAAG	3407
Db	61	TTTTCATAGGTTGCCATGTGGAAGAGTGAATATGCTTTTTTCTGTAGCTTCAGAAAG	120
Qy	3408	CACAGAGGGAGAGCAATGTTGTTCAGAGAAATCAACAGGAGGAGAACTGTCTAGAG	3466
Db	121	CACAGAGGGAGAGCAATGTTGTTCATGAGAAAGATCAACAGGAGGAGAACTGTCTAGAG	180
Qy	3467	CTGTCTGAATAGGGTGGTTTGGGAGGCATTAATCCCTCTCGTTGGGGTAAAAAGCAG	3526
Db	181	CTGTCTGAATAGGGTGGTTTGGGAGGCATTAATCCCTCTCGTTGGGGTAAAAAGCAG	240
Qy	3527	AACGCAAGTTGGTGTAGTAAATGCAATGACAGACAGTAGGGACGATAAACTTTAAATTC	3586
Db	241	AACGCAAGTTGGTGTAGTAAATGCAATGACAGACAGTAGGGACGATAAACTTTAAATTC	300
Qy	3587	TTATAGTCTTGGAGTCTTTGAGATAGAAAAGAAATATCTTTTGGCCCTTATGTCAAAAGAA	3646
Db	301	TTATAGTCTTGGAGTCTTTGAGATAGAAAAGAAATATCTTTTGGCCCTTATGTCAAAAGAA	360
Qy	3647	GTATGGAAGAGTGAAGCGGGAAGAAAGCAGGAGGAGGAGAAACCATGTATTATATAGA	3706
Db	361	GTATGGAAGAGTGAAGCGGGAAGAAAGCAGGAGGAGGAGAAACCATGTATTATATAGA	420
Qy	3707	GGACAATGGTGACAAGGTTTCTTGAATTAATGCAAAATATGATAGATTAGAGGAATTC	3766
Db	421	GGACAATGGTGACAAGGTTTCTTGAATTAATGCAAAATATGATAGATTAGAGGAATTC	480
Qy	3767	AGTAGGGAATGCTTTTCACTTGAATTTGGGTTTCTCTCGATTAAAGTTTGGGATCCTCA	3826
Db	481	AGTAGGGAATGCTTTTCACTTGAATTTGGGTTTCTCTCGATTAAAGTTTGGGATCCTCA	540
Qy	3827	TCTGCATTTGACTTTGGAGAGAGAAAGATGAATGTTAGGACCTATATCTGGTTTCTATT	3886
Db	541	TCTGCATTTGACTTTGGAGAGAGAAAGATGAATGTTAGGACCTATATCTGGTTTCTATT	600
Qy	3887	AACTAAAGCAAGTGGAAAGACTTATTTTGGTATTTTT	3923
Db	601	AACTAAAGCAAGTGGAAAGACTTATTTTGGTATTTTT	637

Search completed: December 21, 2005, 21:08:41
Job time : 2425.07 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 20, 2005, 13:17:12 ; Search time 334.473 Seconds
(without alignments)
7442.822 Million cell updates/sec

Title: US-09-751-797-25

Perfect score: 4797

Sequence: 1 tgcacaagcagaattcttcag.....gatgcccaagcgattttt 4797

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4168288 seqs, 259477437 residues

Total number of hits satisfying chosen parameters: 8336576

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Published Applications NA_New.*
- 1: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq.*
 - 2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
 - 3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
 - 4: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
 - 5: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
 - 6: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
 - 7: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*
 - 8: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq2.*
 - 9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq3.*
 - 10: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	4797	100.0	4797	7	US-11-177-987-26
2	686	14.3	7445	7	US-11-177-987-8
3	650	13.6	5935	7	US-11-177-987-42
4	258	5.4	690	7	US-11-177-987-25
5	159.4	3.3	1152	7	US-11-102-240-153
6	244	5.1	1152	7	US-11-177-987-18
7	127.6	2.7	1111	7	US-11-177-987-9
8	126	2.6	1119	7	US-11-177-987-7
9	121.6	2.5	184527	7	US-11-121-086-71
10	118.6	2.5	130472	6	US-10-995-561-13312
11	114	2.4	180654	7	US-11-121-086-58
12	113.8	2.4	179777	7	US-11-121-086-106
13	112.4	2.3	191091	7	US-11-121-086-60
14	110.4	2.3	398287	6	US-10-995-561-13396
15	107.8	2.2	150450	7	US-11-112-908-54
16	107.8	2.2	191343	7	US-11-112-908-53
17	107.6	2.2	222094	6	US-10-995-561-13244
18	107.4	2.2	40394	6	US-10-995-561-13493
19	106.8	2.2	199321	7	US-11-121-086-10
20	106.4	2.2	189495	7	US-11-121-086-61
21	105.8	2.2	196200	7	US-11-121-086-9
22	104.8	2.2	105550	6	US-10-995-561-13235
23	103.6	2.2	1125000	6	US-10-995-561-13286

ALIGNMENTS

RESULT 1

US-11-177-987-26
; Sequence 26, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; INTERLEUKIN-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT FILING DATE: 2005-07-07
; CURRENT APPLICATION NUMBER: US/11/177,987
; PRIOR FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 26
; LENGTH: 4797
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-11-177-987-26

Query Match 100.0%; Score 4797; DB 7; Length 4797;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 4797; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	TGCACAAGCAGAAATCTTCAGAACAGGTTCTCTTCCCTCCAGTCACAGTTGCTGAGTTAG	60
Db	1	TGCACAAGCAGAAATCTTCAGAACAGGTTCTCTTCCCTCCAGTCACAGTTGCTGAGTTAG	60
Qy	61	AATTGCTGCAATGGCGCCCTTCAGAAATCTGTAGCTCTTTCTTATGGGACCCCTGG	120
Db	61	AATTGCTGCAATGGCGCCCTTCAGAAATCTGTAGCTCTTTCTTATGGGACCCCTGG	120
Qy	121	CCACCAAGTCCCTCTTCTTCTTGGCCCTCTTGTGTACAGGAGGAGCAGCTGCGCCCATCA	180
Db	121	CCACCAAGTCCCTCTTCTTCTTGGCCCTCTTGTGTACAGGAGGAGCAGCTGCGCCCATCA	180
Qy	181	GTTCCCACTGCAGGCTTGACAGTCCAACTTCCAGGAGCCCTATATACCAACCGCACT	240
Db	181	GTTCCCACTGCAGGCTTGACAGTCCAACTTCCAGGAGCCCTATATACCAACCGCACT	240

181	Db	GCTCCCACTGCAGGCTTTGACAAGTCCAACTTCCAGCAGCGCCCTATATATCACAAACCGCACCT	240
241	Qy	TCATGCTGGCTTAAGAGGTATACATCTCAATCCTGCTCTTTCTGCTGGATCTACTTGA	300
241	Db	TCATGCTGGCTTAAGAGGTATACATCTCAATCCTGCTCTTTCTGCTGGATCTACTTGA	300
301	Qy	ATCCAAATAGTCTTAAACCTTTTCTCAGAGCATCTTAAGAGCTTTAGGAACCCACTGT	360
301	Db	ATCCAAATAGTCTTAAACCTTTTCTCAGAGCATCTTAAGAGCTTTAGGAACCCACTGT	360
361	Qy	TTATCCCTGAGGTAGATAAATTTTCTGTTTTTTTCAGAGACTCTTTTGGGAATCTGGCTTT	420
361	Db	TTATCCCTGAGGTAGATAAATTTTCTGTTTTTTTCAGAGACTCTTTTGGGAATCTGGCTTT	420
421	Qy	TTTTTTTTTCTGAACTTCTCTCTCCATTTTGGCCTTTATGATACATATGATGAATTTT	480
421	Db	TTTTTTTTTCTGAACTTCTCTCTCCATTTTGGCCTTTATGATACATATGATGAATTTT	480
481	Qy	CCCAAAGAGCGGCATTCAGTAATCCATCTGATGATTTTTTTTTTCCCTTATGCGCTCTGTG	540
481	Db	CCCAAAGAGCGGCATTCAGTAATCCATCTGATGATTTTTTTTTTCCCTTATGCGCTCTGTG	540
541	Qy	CATTGTTCTAAACTCATGTCACACATCTGAAATCTGCTTTTAGTCTTTATGATGTTGCTCT	600
541	Db	CATTGTTCTAAACTCATGTCACACATCTGAAATCTGCTTTTAGTCTTTATGATGTTGCTCT	600
601	Qy	GGGAGAGCGGATCGGGCACATGCTATGATATAATTTTTTTTTTCTATTTGCTCAATGTCTC	660
601	Db	GGGAGAGCGGATCGGGCACATGCTATGATATAATTTTTTTTTTCTATTTGCTCAATGTCTC	660
661	Qy	AGACCCCTTAGTCTTTCTCTCTCCAGGCTAGCTTGGCTGATAACAACAACAGACGTTCTG	720
661	Db	AGACCCCTTAGTCTTTCTCTCTCCAGGCTAGCTTGGCTGATAACAACAACAGACGTTCTG	720
721	Qy	TCTCATTTGGGAGAGAAACTGTGTTCCACGAGCATGTTAAGCTACAGTTGTGACAAACAGGG	780
721	Db	TCTCATTTGGGAGAGAAACTGTGTTCCACGAGCATGTTAAGCTACAGTTGTGACAAACAGGG	780
781	Qy	CCGTGTGCCGTCCATGGTACTTCGGGTGGTGGTATGATGTTTAGTCTCTATCCCTTA	840
781	Db	CCGTGTGCCGTCCATGGTACTTCGGGTGGTGGTATGATGTTTAGTCTCTATCCCTTA	840
841	Qy	TGACCCCTTTCTGTTTCCCTCTCCAGTCTGAGTGAAGCGCTCTATCTGATGAAGCAG	900
841	Db	TGACCCCTTTCTGTTTCCCTCTCCAGTCTGAGTGAAGCGCTCTATCTGATGAAGCAG	900
901	Qy	GTGCTGAACCTTCAACCTTGAAGAAGTGTGTTCCCTCAATCTGATGTTCCAGCCTTAT	960
901	Db	GTGCTGAACCTTCAACCTTGAAGAAGTGTGTTCCCTCAATCTGATGTTCCAGCCTTAT	960
961	Qy	ATGAGGAGGTGTGCTCCCTCTCCGCGAGGCTCAGCAACAGGCTTAAGCACATGTGTAAGT	1020
961	Db	ATGAGGAGGTGTGCTCCCTCTCCGCGAGGCTCAGCAACAGGCTTAAGCACATGTGTAAGT	1020
1021	Qy	TCAGTCTCTCAGCTATGCGCCACCTTACCCTCCTTCCCTCTCCACAGAGACCCCTTAC	1080
1021	Db	TCAGTCTCTCAGCTATGCGCCACCTTACCCTCCTTCCCTCTCCACAGAGACCCCTTAC	1080
1081	Qy	CCCAACTCTCTCTCTCCCTTACCCTTAAGCTAGCAGGAAGAAGTGTCTTTGGCAGCAG	1140
1081	Db	CCCAACTCTCTCTCTCTCCCTTACCCTTAAGCTAGCAGGAAGAAGTGTCTTTGGCAGCAG	1140
1141	Qy	TGTTATCAGGAGTCATTTGGGATCATAGAGTATTTGCTTTTGTCTTTCAGCTGAGTCAATC	1200
1141	Db	TGTTATCAGGAGTCATTTGGGATCATAGAGTATTTGCTTTTGTCTTTCAGCTGAGTCAATC	1200
1201	Qy	TTGAGTATTATAGTGTGTAATGGGGTCTGGAACCTTAAGTGTATCAGAAGCCGATTTGGTTG	1260
1201	Db	TTGAGTATTATAGTGTGTAATGGGGTCTGGAACCTTAAGTGTATCAGAAGCCGATTTGGTTG	1260
1261	Qy	TCTTCGAAAAAAGGCAACTCAGGTTGTGTAAGATGAGAAAGGTGTTGGGAAAAACATCTA	1320
1261	Db	TCTTCGAAAAAAGGCAACTCAGGTTGTGTAAGATGAGAAAGGTGTTGGGAAAAACATCTA	1320

Qy	1321	GCTGTGAAATGGATTCATTAGTCTTAAGTTGTGTAGGGAGGGATGCGATCGAGAGAA	1381
Db	1321	GCTGTGAAATGGATTCATTAGTCTTAAGTTGTGTAGGGAGGGATGCGATCGAGAGAA	1381
Qy	1381	ATTAGAGAGAAAGTGGGAATCGGAAGGCTTAAAGTCGCTGGTGGCTCGGACAGACTGTT	1440
Db	1381	ATTAGAGAGAAAGTGGGAATCGGAAGGCTTAAAGTCGCTGGTGGTGGCTCGGACAGACTGTT	1440
Qy	1441	GCCCTGTTTGATGTCATCGGGAAGCCACAAAAATCGAGGCGTGTCAACTTGATCGCGCTGAA	1500
Db	1441	GCCCTGTTTGATGTCATCGGGAAGCCACAAAAATCGAGGCGTGTGAACCTTGATCGCGCTGAA	1500
Qy	1501	CATTGGAACCTATGAAAAAAGTTTGATGCGAGTGGGCCCCAGTAAAAAGGCCCTTAGGACTT	1560
Db	1501	CATTGGAACCTATGAAAAAAGTTTGATGCGAGTGGGCCCCAGTAAAAAGGCCCTTAGGACTT	1560
Qy	1561	ACTGAAGAGGCTTAATTTTACATGATGATGTTTTATGTAACATTTCTTGTTCTTAAGCATG	1620
Db	1561	ACTGAAGAGGCTTAATTTTACATGATGATGTTTTATGTAACATTTCTTGTTCTTAAGCATG	1620
Qy	1621	CAATTTTCTGAGAGATACGATTTGAGGTTTTATTTCCCTACAGAAATTGTCATAAACTACTCCG	1680
Db	1621	CAATTTTCTGAGAGATACGATTTGAGGTTTTATTTCTTACAGAAATTGTCATAAACTACTCCG	1680
Qy	1681	CTCTTTCCACAAATGCAAACTCAGTAGGATTTTCCAAAGATGAAGAGAGGTCTCTTGTA	1740
Db	1681	CTCTTTCCACAAATGCAAACTCAGTAGGATTTTCCAAAGATGAAGAGAGGTCTCTTGTA	1740
Qy	1741	AGGGAAGTGACTGATTTCTGGCGTCCAAAGGAATTCAGAGCTCAGGAAATCTAGGTCAC	1800
Db	1741	AGGGAAGTGACTGATTTCTGGCGTCCAAAGGAATTCAGAGCTCAGGAAATCTAGGTCAC	1800
Qy	1801	TGTTGAAATCTAGTGCAATGTGGGCAAAATTTACTAAGAGCTTTTAATTCACAGGTGAATGT	1860
Db	1801	TGTTGAAATCTAGTGCAATGTGGGCAAAATTTACTAAGAGCTTTTAATTCACAGGTGAATGT	1860
Qy	1861	ACTGTACCTCATGGGTGTGGAGGTTTCATAAAGTTTCAGACAACTTAAGATAGTTATG	1920
Db	1861	ACTGTACCTCATGGGTGTGGAGGTTTCATAAAGTTTCAGACAACTTAAGATAGTTATG	1920
Qy	1921	CTTGTTATTGTTTTATAGCATATTGAGGTGATGACCTGCATATCCAGAGGAATGTGCAA	1980
Db	1921	CTTGTTATTGTTTTATAGCATATTGAGGTGATGACCTGCATATCCAGAGGAATGTGCAA	1980
Qy	1981	AAGCTGAAGGACACAGTGAAAGGTAGGACTGATACTGTCATGCTAAGTCAATGCAAT	2040
Db	1981	AAGCTGAAGGACACAGTGAAAGGTAGGACTGATACTGTCATGCTAAGTCAATGCAAT	2040
Qy	2041	AGGAGAGACAAATGTTGTTTTCTTTTCTTTTCTTTTCCCATCACTTTGTGATTTTTCA	2100
Db	2041	AGGAGAGACAAATGTTGTTTTCTTTTCTTTTCTTTTCTTTTCCCATCACTTTGTGATTTTTCA	2100
Qy	2101	CTTGATTCTCTTACCAACAGGGCGAATTACTTTGGTGTCTGTGTATGTAGATATATCTATA	2160
Db	2101	CTTGATTCTCTTACCAACAGGGCGAATTACTTTGGTGTCTGTGTATGTAGATATATCTATA	2160
Qy	2161	TATCTAGATGTCAGTTTCCAAATCTTGCAAAATTGTAGNAATTCAGAACTGGTTCGGACT	2220
Db	2161	TATCTAGATGTCAGTTTCCAAATCTTGCAAAATTGTAGNAATTCAGAACTGGTTCGGACT	2220
Qy	2221	TAGCTTTGTCTAGTCACATAAAGGTAGGATGCTCAGTGGCAGAGATAGGGCTA	2280
Db	2221	TAGCTTTGTCTAGTCACATAAAGGTAGGATGCTCAGTGGCAGAGATAGGGCTA	2280
Qy	2281	GAAATCAGGCTCTCTGAAATCCCAAGCCAGCACTTTTCCCGGTGGTGATACAGATTAGTTT	2340
Db	2281	GAAATCAGGCTCTCTGAAATCCCAAGCCAGCACTTTTCCCGGTGGTGATACAGATTAGTTT	2340
Qy	2341	TGGTACCAATTAATCTTCTAGGGAATTTTCCAGATTTCTATTTAGTCACTGTAATCTCAGAGG	2400
Db	2341	TGGTACCAATTAATCTTCTAGGGAATTTTCCAGATTTCTATTTAGTCACTGTAATCTCAGAGG	2400

QY 2401 TACTTGTGTTTAAACACAGAAAATGCCCTATGGGCAAAATTTATTTGAAGTCATTTTGAAGT 2460
Db 2401 TACTTGTGTTTAAACACAGAAAATGCCCTATGGGCAAAATTTATTTGAAGTCATTTTGAAGT 2460
QY 2461 CATTAAATGCAATGCTTTGAAACTTGGAAAGTAATAACTCAGAAACAATGAGAAAAGAGCTGG 2520
Db 2461 CATTAAATGCAATGCTTTGAAACTTGGAAAGTAATAACTCAGAAACAATGAGAAAAGAGCTGG 2520
QY 2521 ACTTGCAATATAGGGCTTAATTTCTGGAGTAATAAACACTTATTTTGAATTAATCATATATC 2580
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QY 2581 TATCAGATATATGATATAGTTTAAAGCAAGAGCAGACACCCCGCATCTCTTTTATACAG 2640
Db 2581 TATCAGATATATGATATAGTTTAAAGCAAGAGCAGACACCCCGCATCTCTTTTATACAG 2640
QY 2641 GTTCAAAATAGAGTAATAAATATTTAGTAAGAGATTTATTTATAGTTAAATGGAAGTCTGAAT 2700
Db 2641 GTTCAAAATAGAGTAATAAATATTTAGTAAGAGATTTATTTATAGTTAAATGGAAGTCTGAAT 2700
QY 2701 GGTAAAGCTTTTTTCTCTCTCTCCCATCAAGACCTTCCATTTCTAGTTTCTTCTCTCA 2760
Db 2701 GGTAAAGCTTTTTTCTCTCTCTCCCATCAAGACCTTCCATTTCTAGTTTCTTCTCTCA 2760
QY 2761 CTCCCTCAACAAATCCCTAGGAGCAATTTATCCATGGTGGCTGGTGTATCATTTCTATAG 2820
Db 2761 CTCCCTCAACAAATCCCTAGGAGCAATTTATCCATGGTGGCTGGTGTATCATTTCTATAG 2820
QY 2821 TGAATGATACCATCATGTCGCCCTATTTGGTGAAGAAACAACAATGGAAGCTTTAGACTA 2880
Db 2821 TGAATGATACCATCATGTCGCCCTATTTGGTGAAGAAACAACAATGGAAGCTTTAGACTA 2880
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Db 2881 ACAATAGTGACTCACCCCAAAACCGGAGGAATGATTTAGGAGCAGTGAAGCTTTCCT 2940
QY 2941 GCAAGCAGGTACAACTAAATCTCAGAAAATGAGGCTCCAGTTGATGGAATTTTCAGT 3000
Db 2941 GCAAGCAGGTACAACTAAATCTCAGAAAATGAGGCTCCAGTTGATGGAATTTTCAGT 3000
QY 3001 AACAGCTTAACTTAACTCCCTCTTTCCTCTGACCTTTTAAAGACGCTTCTTC 3060
Db 3001 AACAGCTTAACTTAACTCCCTCTTTCCTCTGACCTTTTAAAGACGCTTCTTC 3060
QY 3061 CTGAGCATCATTTAAATGAGTGTGACTGTTTCTTCTTGTATATGAAAGCTTTGTAGTT 3120
Db 3061 CTGAGCATCATTTAAATGAGTGTGACTGTTTCTTCTTGTATATGAAAGCTTTGTAGTT 3120
QY 3121 TTAATTTGTAAGCCCAAGTTCTCTTGTATAGAACTATTAATCTAGACATGGAGGCTGAA 3180
Db 3121 TTAATTTGTAAGCCCAAGTTCTCTTGTATAGAACTATTAATCTAGACATGGAGGCTGAA 3180
QY 3181 TGTAGCATGCCACAGCAAGGCATGCTTTTACATCTTCTTAAAGAAATTAATCTGATTC 3240
Db 3181 TGTAGCATGCCACAGCAAGGCATGCTTTTACATCTTCTTAAAGAAATTAATCTGATTC 3240
QY 3241 ATCTTGCTGTGCTTTTGAAGTGAAGTGTGAGAGAGAGAACTCATGTGTGATCTG 3300
Db 3241 ATCTTGCTGTGCTTTTGAAGTGAAGTGTGAGAGAGAGAACTCATGTGTGATCTG 3300
QY 3301 TGTGATTTTCAAGACCTTTTAAATCCATTTTGAAGAAATCAATTTTGAATTTGCAATGGTT 3360
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QY 3361 GCCATGTGGAAGATGATTAATGCTTTTCTGCTAGTCTCAGAAAGCAGAGGGAGA 3420
Db 3361 GCCATGTGGAAGATGATTAATGCTTTTCTGCTAGTCTCAGAAAGCAGAGGGAGA 3420
QY 3421 GCAATGTTGTTTCAAGAAAGATCAACAGGAGGAGAACTGTCTAGAGCTGTCTGAAATAGG 3480
Db 3421 GCAATGTTGTTTCAAGAAAGATCAACAGGAGGAGAACTGTCTAGAGCTGTCTGAAATAGG 3480
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Db 3481 GTGGTTTTGGAGGCAATTAATTTCCCTCTCGTTGGGGTAAAGCAGAACCCAGCTTGGTA 3540
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QY 3601 TCTTTGAGATAGAAAAAGATATCTTTTGGCCCTTATGTCAAAGAGATATGGAAGGTGA 3660
Db 3601 TCTTTGAGATAGAAAAAGATATCTTTTGGCCCTTATGTCAAAGAGATATGGAAGGTGA 3660
QY 3661 AAGGGCGGAGAAAGCAGGAAAGGAGAACCATATATATATAGAGGACAAATGGTGACA 3720
Db 3661 AAGGGCGGAGAAAGCAGGAAAGGAGAACCATATATATATAGAGGACAAATGGTGACA 3720
QY 3721 AGGTTTTTCTTTGAAAATAATGCAAAATATAGATAGAGGAAATTCAGTAGGGAATCCTT 3780
Db 3721 AGGTTTTTCTTTGAAAATAATGCAAAATATAGATAGAGGAAATTCAGTAGGGAATCCTT 3780
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QY 4201 CTGTCTCGGCCCATGTCGGGCTGTGGGCTGCAAGTTTGAACAAGCTCTTTATAGTAAATC 4260
Db 4201 CTGTCTCGGCCCATGTCGGGCTGTGGGCTGCAAGTTTGAACAAGCTCTTTATAGTAAATC 4260
QY 4261 TGTCTATAGATAGTTTTTGGAGCTGCAAAAACAGGCAAGGCAATATGGGTGGCATTCGGGAT 4320
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Db 4321 CCCCCAGATCCCAAGCCTCAGTTTCAGTCTCTCTGCTCTGTTAAAGAGGGTGGTCAACTC 4380
QY 4381 TCTGCCAGCTTTTAAACAGCTTATAGTGTGAGGTGCAACCTGAAATTTGATGCCCTGCTG 4440
Db 4381 TCTGCCAGCTTTTAAACAGCTTATAGTGTGAGGTGCAACCTGAAATTTGATGCCCTGCTG 4440
QY 4441 GTGGCCTCTCAGTCCAGAGAGCGCTCATTTTAAAGCTCTTTGGCAAAATCATACAATACTAA 4500
Db 4441 GTGGCCTCTCAGTCCAGAGAGCGCTCATTTTAAAGCTCTTTGGCAAAATCATACAATACTAA 4500
QY 4501 AGGGAATTTACTATGAATGTTTTTACAAATGCTTTAAAGCTCTGCTCCATCAAC 4560
Db 4501 AGGGAATTTACTATGAATGTTTTTACAAATGCTTTAAAGCTCTGCTCCATCAAC 4560
QY 4561 TAACTTGCATTTTCTAAATTTGTTCTCTTTAGAAAACATGGGCATAAATGCTCAAAATCTT 4620

Qy	1461	AGCCACAAAATCGAGGCGGTGTGAACCTTGATGCCGCTGAA	1520
Db	3478	AGTTAAGAAAAACCAAGT-GTGTGAGTTTGATGCTTCAGAGACACCCCAACTATGAACACAT	3536
Qy	1521	AGTTTGAGTGGAGTGGGCCCCAGTAAAGGCCCTAGGACTTACTTGAAGAGGGCTTAATTTT	1580
Db	3537	ATCCAGGAGGACGGCAGACTGTGGAGACCTTGGCACTTTAGGGA--AGCGCGGGCTTTT	3594
Qy	1581	CACATGAGATGTTTTTATGTGACATTTCTTGTTCTAAGCATGCAATTTTTCTGGAGATACGAT	1640
Db	3595	CACAGAGAACTTTATGCTCATCTCTTGCTTACATCCCACTTTGATGAGGTTTCAGC	3654
Qy	1641	TGAGGTTTATTCCTTACAGAAATTTGCATAAACTTACCTCCGCTCTTCCACAAATGCAAAAC	1700
Db	3655	TCAGGTTTCGTTTTCT-----ACCGTTCTTGCTACTGGTGGAAAC	3693
Qy	1701	CTCAGTAGGATTTCCCAAGATGAAGAGAGGTCTCTTTGTAAGGGAAGTGACTGGATTCGT	1760
Db	3694	TTTCAGTAGGATTTCCCAAGAAGCAGAGCAGCTCTTCTGTGAAGGAGGACCTGGATTTCA	3753
Qy	1761	GCGTCCAAGGAAATCAAGAGCTCAGGAAATCTAGGTCACTGTGTGAAATCTAGTCAATG	1820
Db	3754	GTGTCTTAGAGACGAATAGCTCAGAGATCTAGGTCAAGTGAATCTAGGTCAACAGC	3813
Qy	1821	TGGGCAAAATTTACTAAGAGCTTTAAATCCAGGTGAAATGTACTGTACTCCATCGGGTGTG	1880
Db	3814	GGGCAAAATGACTGAACGCTCTTATTCAGGTGAACGGTCACGTGCCCTCAGATATACTG	3873
Qy	1881	GAGGTTTCATAAAGTTTTCAGCAACAATTAAGATAGTTATGCTTGTATTATGTTTATAGCA	1940
Db	3874	AGTATTGGGCTCCACCGGATAGATCTGTTAGTGA-GTCTGCTTTTATTTTTCAGCA	3932
Qy	1941	TATTGAAGTGTATGACCTGCATATCCAGAGGAATGTCAAAGCTGAAGACACACGTGA	2000
Db	3933	CATCAGCGGTGACACACAGAACTCCAGAGAATGTGAGAAAGGCTGAAGGAGACACGTGA	3992
Qy	2001	AAAGGTAGGACTGATAACTGTCAATGCTCAAGTCAATGCAATAGGAGAGACAAATGTTGTTT	2060
Db	3993	AAAGTACTATTGGCAAGCCACATACTAAGCCATTCAAGTAG-GAGACGTGGGATTTC	4050
Qy	2061	TTCTTTCTTTCTTTCTCCCATCACTTTGTGATTTTTTCACTTGATTTCTCTACCAACAG	2120
Db	4051	TTTCTGCTTCCAGTCCCTTCTACTTTGTAACTTTTGTGACTTGTCTACTATCTG	4110
Qy	2121	GGCGATTA----CTTTGGTGTCTGTGTATGTAGATATATCTATATATCTAGATGTCAATT	2176
Db	4111	GTCCATTACTCGCTTAGCTGCACCTGTATCTAGCTGGGTCTATAGATCTTTCAATCTGTG	4170
Qy	2177	TCCAAATCTTGCAAAATGTAGAAATCTAGAACTGGTTGGGATCTTAGCTTGTCTAGTCAAC	2236
Db	4171	TCATAAATTT---GTAAGTCACAATCTGAGAGTAGCAAGAAAGCTTAGTCAGCAGTCTC	4227
Qy	2237	ATAACCTCAGATTTCTGGGATGGTTCAGTGGCAGAGATAGGGCTAGAAATGAGGCTCTCTG	2296
Db	4228	ATGAGCACTTGCTCGGAGGATGGCTTGTGACAGAGTCAATGCTAGAGAAGACATCCCTG	4287
Qy	2297	AATCCCAAGCCAGACATTTTCCCGGTGGTGATACAGATTAGTTTGTGATCACTTAATCTCT	2356
Db	4288	ATTCCCAAGCTCTGCAC-ATTGCTAGTGGCCATGTGTAAATTAATTTTGGCTTGAATTAAGTAT	4346
Qy	2357	TAGGGAATTTCAGATTTCTTATGACTCATGTATCTGAAGAGTACTTCTGTTTAAARAACA	2416
Db	4347	TTGGGAAA--GCCATTTCCCAAGGACCTACATAATCTGAAGAACCATTGCATTTGAAGACATA	4404
Qy	2417	GAATAATGCCTATGGGCAAAATTTATTTGAAGTCAATTTTGAAGTCAATTAATGATGCTTT	2476
Db	4405	GA---GCTGGGCAAACTTACTAGAGATGATTTTGGCTCATTTAAACGATGCTC	4460
Qy	2477	TGAACCTTGAAGAATAACTCAGAAACAATGAGAAAAAGCTGGACTTGCATATAGGGCT	2536
Db	4461	TGAATGTGGCAAAATCAACCCAGAAATAACAACAAAGAGCTGGATTGCAAAATAGGACA	4520

QY	2537	AA	TTTCTCGGA-----GTAATAAACCACTTATTTTGGAAATTATCATTAATAATCTATACAGATA	2589
DB	4521	AG	TATTTAGGAATCACTGGTATTAATAGCTATCATCTTAAATTAATAATATAGGGCTATATA	4580
QY	2590	TT	GATTATAGTTTAAAGACGAAGACGACACAAC-CCGATCTCTTTTATATACAGGTTCAAAAT	2648
DB	4581	TAT	TATTTAAGATTAAACAAGAAGTGGATAGCTCCCAATTATCTTGGCCTGGTTTCAA	4640
QY	2649	AG	AGTAAAAATATTTAGTAAGAGATTTTATTATAGTTAAATGGAAGTCTGAAATCGTAAAGCT	2708
DB	4641	AG	AGTAAAAATATCAGTCATGGATTAATATATAGTGTATGATGAAAGTATGAGATGGAACACC	4700
QY	2709	TTTT	TTTTTCTTCCTCTCTCCCATCAGACCTTCCATCTAGTATTCTTCTTCTCCTCCTCCTCA	2768
DB	4701	TTTT	CTTTACTTTTTTACCTTCA-----TTTCTTAGTTTTTTTTTTCTTTTTCACACCTCGA	4752
QY	2769	AC	AAATCCCTAGGAGGACATTTATCCATGTTGGCTGGTGTACATTTCTATAGTGAATGAT	2828
DB	4753	TCA	AGCCACTAGTAAGCACTTATCTGCTGTGAGCTATTATATGACTTTACGCAACAAC	4812
QY	2829	ACC	ATCATATGTGGCTATTTTGGTGAAAGAACA--ACAATGGAAGGCTTAGACTAAACAATA	2886
DB	4813	ATT	GCTGTGTGGCTCTTTTGGGAAGGGAACAGATAGCAGGAGGCTCAGGCTAGCAAGT	4872
QY	2887	GT	ACTACCCCCAAAACCGGAGGAATGATTAGAGACGATGAAAGTGACGCTCTT-GCAAG	2945
DB	4873	CT	GACTTGGCCTAAAGCCAGAGGCATGGTTGATAGCAGAGAAAGTAGGCTCTTCGCAAG	4932
QY	2946	CAG	GTACAACTAAATCTCAGAACACTGAAGGCTCCAGTTGATGGAATTTTCAGTAACAA	3005
DB	4933	TGG	GTGTCTTAAGTAATCAGAAACAGGAAGGCTCCGGTTGATGGAATATCATAGTAGAT	4992
QY	3006	GC	TTAACTTAAATTCGCCCTTTTTTCCCTCTCTGACTTTTTTAAAAAAGCGTTTCTTCCCTGAG	3065
DB	4993	AT	CTACCTTATCTCCTTCTATCGAAC-----TAAATCGTCTCTTTTCTTGTG	5042
QY	3066	CAT	CAATTAAGTGTGACTGTTTCTTCCTTTGATAAATTGAAGGCTTTGTAGTTTAAA	3125
DB	5043	TG	AGGCTGATAAACACACTTGT--TTCTTTTGAGTGTTCATGGCTTTGTAGATTTTA	5100
QY	3126	TT	TGAAGCCAGTTCTCTTGTATTAGAACTATTATCTAGACATGGAAGGCTGAATGTTA	3185
DB	5101	GT	CTCTGCCAGTTCCTTGTTAGAG--GGTTTGTACCTTGACACCTGGGCTTGGATGTTA	5158
QY	3186	GC	ATGCCACAGACAAGGCATGCTTTACACATCTTGCTTAAAAAATTTACTGATTTCACTTT	3245
DB	5159	GC	ATGCCAAAGGCACACACTTCTGAATGCCCTGTGTAAAGGTTATTATTTCATTTACT---	5215
QY	3246	CT	TGTTGTCTTTAGAAAAGTGAAGTGTGAGAGGAGAAATCTCATGGTGA-----	3296
DB	5216	----	TTGCTTTTGGAAAGGTGAAGCGTGTGTGAGAAAGAACTCACAGGAGATGTGTCT	5270
QY	3297	-----	TCGTGTGATTTTCAAGACTTTTATTCCTTTTTTTCCTTTTTCCTGGTAGCTTCA	3342
DB	5271	CT	GTAGAAAACCTTTTTTTTTTCCCTTTAAATGCTATAATCCACTTTTCAGTCAAC---	5327
QY	3343	TC	ATTTTGCATGGGTTGCCATGTGGAAGAGTATTATCTCTTTTTTTCCTGGTAGCTTCA	3402
DB	5328	TG	ACTTTTATCCATGCTGTTCACATGAAAGAGTGTTTAGGCCCGCTCTCATGCTCTGGG	5387
QY	3403	GAA	AGCA-CAGGAGGGAGACAATGTTGTTTCAGAGAAAGATCAACAGGAGGAGAAACTGT	3461
DB	5388	AAA	AGCAACCAATAGGGGAAGGAATGTTATGCTGAGAAATCTGACCGGACGGGAAACTGT	5447
QY	3462	CAG	AGCTGTCTGAAATAGGTTGGTTTTTGGAGGCAATTAAATCCCTCTCGTTGGGGTAAA	3521
DB	5448	CAG	AGCTCCCCCGAAGACCA-----CCACAGGTGTTAAGTAGG	5485
QY	3522	AG	CAGACGCAAGGTTGCTAGTAAAT--GCATGACAGACAGTACGGGACGATAAATTTAA	3580
DB	5486	AAC	AGTCCAGGTTGGGCTCATGTAAATAGAAATGAAACGACGGAGGGAAGATAGCTACAA	5545
QY	3581	AA	TTCTTTTATAGTCTTGGAGTCTTTGAGATAGAAAAGAAATATCTTTTGGCCTTATGTCA	3640

Db 5546 AGTTTCATAGGTC- CGGAGTCTTAAAGATACAAAATAGCTGC--TTGGGCTTCATAACA 5602
Qy 3641 AAAGAAGTATGGAAGG-----TGAAAGGGCGGAGAGAAAGCAGGAAAGGAAG 3688
Db 5603 AAGGAAGTCTGGGAAGGACGCAAGTGAGAGGGAATGGAAGGGGAAAAACAGAAATGAG 5662
Qy 3689 AACCATGTATTATATAGAGGACAATGTGTGACAAGGTTTTCTTCAAAATAATGCAAAATG 3748
Db 5663 AGGACTTGAAACAGCTACAAATCTCTACGACAGATTTTCTTGGAACAATCTAGAAGGT 5722
Qy 3749 ATAGATTAGAGGAATTTTCAGTAGGGAATGCTTTTTCACCTGGAATTTGGGTTTTCCTCT--T 3805
Db 5723 AGTGGAATTAGGTGATTCGAGGGGACCTGCTTTTGCCATTTGGAATCTGGGTTTTTGTCTCT 5782
Qy 3806 CGATTAGTTGGGATCTCATCTGCAATTTGACT-----TGGAGAGAGAAAGAAATGAATGT 3861
Db 5783 CCATTGAGGTTGAAGCGTCAACCTTTTACCTTCGAAATGGAGGAGGAAAGAGGGGTGT 5842
Qy 3862 TAGGACCTATATCTGGTTTTCTATTAACTAAGCAAGTGGAAAAGACTTATTGGTATTT 3921
Db 5843 TATGACTCTACCTGGAGTTTTACTAGTTTACGCAATGGAAACAGACACTCGGACCTCCT 5902
Qy 3922 TTCCCACAAAAGTGAAAACCTTTTCTTTTACTGTGTTTGTCAAAAAGGTTGAAATAGAAAAG 3981
Db 5903 CTTGACAAAAAATGGAACCTGTGTTGCTGTTGTTGTTGTTGTTGTTTAAAGAAACAC 5962
Qy 3982 CCTTAATGTAATGGTGAATACATGGTTCAAAGTCATTTGAGTAGAGATGTTTTAAATCAG 4041
Db 5963 AGGCAAAAGCCCGACACATGGGTTGAATGTGGGTCCTTTGAGTCAAGGCTTTTGAAGTTGAG 6022
Qy 4042 GAGTGTCAATCATTTGCTTCCCTGGACCACCTTGAAAGAAATGTTCTTGTGTACACACAT 4101
Db 6023 CACTCATCAATAGTT-----GATCATGGTCAGGTGGAGGGC 6058
Qy 4102 AAAATACAAAGAACAAATAGCTGATGAGCTTAAAAAGTCCATGCATAAATCTCATACTGTTT 4161
Db 6059 TACCTGTGAGCCCGAGCCCTGCTGGCTTCGCACATTAACATCTCCAGGTCICAGTACACT 6118
Qy 4162 TAAGAAAGTTTAAATTTCTGTAGGTGCAATTCAAAGCTGTCTCTGGGCCCATGTGGGC 4221
Db 6119 TCCTGCTACTTTAGCACAGCTTAGGAGTTGAGCAAAACCTTTTTTTC----- 6163
Qy 4222 CTGTGGGCTGCAGGTTGACAAAGCTCCCTTATAAGTAATCTGCTCATAGATAGTTTGGAGC 4281
Db 6164 -----AAGCCCACTAAATTTAATTTGACAAAGACTGTGTAATTTG 6205
Qy 4282 TGCAAAACAGGCCAAGGCATAATGGGTGGCACTCGGGATCCCCAGATCCCGAGCTCACT 4341
Db 6206 TGGGATACAGTGTGATATTGA----- 6227
Qy 4342 TCAGTCTCCTTGTCTGTTTAAAGAGGGGTGGTCACTCTCTGCCCAGCTTTTAAACAGC 4401
Db 6228 ----TCTATGTGTGCTATGTGCAAGGTTTCAATTAAGATAGATTAAATAGGCCCATCAACAGC 6283
Qy 4402 TTCATTAGTGTGAGGTGCACTGAAATTTGATCCCTGCTGTGGCT-CTCAGTCCAGAGA 4460
Db 6284 TTTATGGGTGGAATGCAAGTAATATAGGTAGATGCTGTGGTGTCTTATAGGTGAGAAA 6343
Qy 4461 GCGGTCATTTTAAAGCTTTTGGCAAAATCATACAATCTATAAGGGGATA-----T 4508
Db 6344 GGCATGATTTTAAAGTCTTGGGCAAAATCATATTATCTCATGCTTAAATAATACATTATGTT 6403
Qy 4509 TACTATGAATGTTTTACAAATGCTTTAAACCTCGGTTTCTGTCTCATCAACCTAATCTTG 4568
Db 6404 GATTATTAATCTTTTAGAAGAGGCTGATCTTTGGTTTTTGGTGTCTCAGCAAGCAAAATGTCA 6463
Qy 4569 CAATTTCT--AAATTTGTTTCTTTAGAAACATGGCATAAATGCTCAAACTTTTGCA 4625
Db 6464 CCAGCTCTTTCTAACTGGTACACCTTTTAGAAAATGCTACCTGTGCTCAAAATGGTTGTA 6523
Qy 4626 TTCTTATTTTTCACAGCTTGGAGAGAGTGGAGAGATCAAAGCAATTTGGAGAACTTGGATTTG 4685

Db 6524 TTCTTATTTTTCATAGCTTTGGAGAGAGTGGAGAGATCAAGGCGAATTGGGGAACCTGGACCTG 6583
Qy 4686 CTGTTTATGCTCTCGAATAATGCTGCAATTTGACCGAGCAAAAGCTGAAAAATGAATAAC 4745
Db 6584 CTGTTTATGCTCTCGAATAATGCTTGGCTCTGACCGAAGAAGCTTAGAAAAACGAAGAAC 6643
Qy 4746 TAACCCCTTTTCCCTGCTAGAAAATAACAATTAGATGCCCCCAAGCGATTTTT 4797
Db 6644 TGCTCCTTCTGCTTCTTAAAGAAACAATAAGATCCTCGAATGGACTTTTT 6695

RESULT 3
US-11-177-987-42
; Sequence 42, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 42
; LENGTH: 5935
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-11-177-987-42

Query Match 13.6%; Score 650; DB 7; Length 5935;
Best Local Similarity 56.5%; Pred. No. 5e-163;
Matches 1863; Conservative 0; Mismatches 1285; Indels 152; Gaps 29;

Qy 29 CTCCTTCCCAAGTCACCAAGTTGCTCGAGTTAGAAATGCTGCAATGGCGCGCCCTGCAGAA 88
Db 356 CTCTCTCTCAGTTATCACTTTTGACACTTGTGCGATCGGTGATGGCTGCTTCGCGAA 415
Qy 89 ATCTGTGAGCTCTTTCTTATGGGACCTTGGCCACAGCTGCTCTCTCTCTTTCTTTGGCCT 148
Db 416 ATCTATGAGTTTTTCCCTTATGGGACTTTTGGCGCCAGCTGCTCTCTCTCAATTGCCCT 475
Qy 149 CTTGGTACAGGAGGAGCAGCTGGCGCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAA 208
Db 476 GTGGGCCCAAGGAGCAAAATGCGTGGCCCATCAACACCCGGTGCAAGCTTGAAGGTGTCOA 535
Qy 209 CTTCCAGCAGCCCTATATACCAACCGCACCTTCATGCTGGCTAAGGAGGTATACATCTC 268
Db 536 CTTCCAGCAGCCGTACATCGTCAACCGCACCTTATGCTGGCCCAAGGAGGTACAGTGA 595
Qy 269 AATCCTGCTCTTTCTCTGTTGGATCTACTTGGAAATCCAAATAGTTCTTAAACCTTTCTTCA 328
Db 596 TCTCTTCTCTCCATACCGCCTTGCCTTCTCTGAAGCACTTGCACAACTCTTTAGGGGC 655
Qy 329 GAGCATCTTAAGAGCTTTTAGGAACCCACTGTTTATCCCTGAGGAGGTAGATAAATTTCTG 388
Db 656 GCTTTATCTCGCAGGCTCTCACTACCTATGTTTTCTGTCT-----CTTTAGAG 703
Qy 389 TTTTTCAGAGACTCTTTGGGAATCTGGCTTTTTTTTTTTTCTTGAACCTTCTTCCTTCCAT 448
Db 704 ACTCTTAAGGACTGGATCTTTTCTTATTTCTATTTCAAGGCTCTCAGGACCATTTCTTAT 763
Qy 449 TTTGGCCTTTATGATACATATGAAATTTTCCAAAGAGCGGCATTCAGTAAATCCAT 508

Db 764 CTTGGCCTTCAGGACACATATACCTGAAATTTATCTACAGAGGCGCGTTT--AGAAAGCCA 821
Qy 509 CTGATGATTTTTTTTCCCTTATGCTCTGTCGCAATGTTCTAAACTCATGACACATCTG 568
Db 822 CCCAGGACTGCAATACATCTTCCATCCTGTTGCTCTCTCTGAACTCATATCTCTTTGGC 881
Qy 569 AATTCTGCTTTAGTCTTTATGATGTTGCTCTGGGAGACGGGATGGGACACATGTCAT 628
Db 882 TACTC-----CTGAGACCCACTGCGGACATACATCTCTAC 916
Qy 629 GTATAAATTTTTTTTCTATTTGCTCAATGTCACAGCCCTTAGTCTCTTTCTCTCTCCAG 688
Db 917 TTACAGGCTTTCTTCATCTCTTGTGTCACCCAGGCACTTAGGGTTTC-TCTCTTTTCA 975
Qy 689 GCTAGCTTGGCTGATAACAACACAGAGCTTCTGCTCAATGGGGAGAACTGTTCCACGGA 748
Db 976 GCCAGCCTTCAGATAACAACACAGAGCTCCGGCTCATCGGGAGAACTGTTCCGAGGA 1035
Qy 749 GTGAGTGAAGCTACAGTTGTGAGCAACAGGGCCGTGTGCGCTCCATGGGTACTTTGGGT 808
Db 1036 GTGAGTGAAGCTCCTCACTGTGATGAGCAGGC-----TAGCTGCGGAGCT 1082
Qy 809 GGTGCTGATGATGTTTAGGCTTTATCCCTTATGACCCCTTCTGTTTCCCTTCCACCTGC 868
Db 1083 GGTGACCCCTCTGGATAG----TCTGACGTATGACCCCTGCTCTCTTGTCTACCTGC 1138
Qy 869 AGATGAGTGAAGCTGCTATCTGATGAAGCAGGCTGCTGAACCTCACCCCTTGAAGAGTGC 928
Db 1139 AGGCTAAGGATCAGTCTACCTGATGAAGCAGGCTGCTCAACTCACCCCTGGAACATTC 1198
Qy 929 TGTTCCTCAATCTGATAGGTTCCAGCCTTATATGACAGAGGTTGGTCCCTTCCGCGCA 988
Db 1199 TGTCTCCCGCTCAGACAGGTTCCGGCCCTACATGACAGGAGGTTGGCTTTCCTGACCA 1258
Qy 989 GGCTCAGCAGCAGCTAAGCAGATGCTTAAGTTAGTCTCAGCCTATGCCACTACCC 1048
Db 1259 AACTCAGCAATCAGCTCAGCTCTGTGTAGGCTGCGCTCTGGCTATGCTCTCTCT 1318
Qy 1049 CTCCTCCCTCTCCACAGAGCCCTTACCACCAACTCTCTCTCTCTCCCTCCCTACCCC 1108
Db 1319 CTTCTCTCTTATTCAGTAGAACCCGAGTCTCTGCTCTCTCTCTCTCTCTCTCACAAGATGA 1378
Qy 1109 TAAGCTAGCAGGAAGAAGTGTCTTGGCAGCAGTGTATCAGGAGTCA-----TTTGGG 1161
Db 1379 GGAGGGCTCAGCACACCACCATCATAGGCCACTTGAAATAGGTCACAAAGGCTTTGGC 1438
Qy 1162 ATCATAGATATTGCTTTGCTTTGCTGACTGAGTCACATCTGAGTTTATAGTGTGAATG 1221
Db 1439 TTCAATTGAGTAATCTTGAATTTGATTTAGTTAAGCTTTATTTGTTTATCATCGGAA 1498
Qy 1222 GGGTCTGGAACTTAAGTGTACAGAAAGCCGCAATGGTTGCTTCGGAAAAAAGGCAACTC 1281
Db 1499 AGAATCACTCAATTTCTGTAGATGAGAAGATGTTGGACGAAAAAAGGCTAGAT 1558
Qy 1282 AGGTGCGTAA--GATGAGAAAGGTGTGGGAAAAATCTAGCTGTGGAATGGATCCA 1338
Db 1559 AGAAAAACAGATCTGCTGAGTACAGTACTATGCGGGGGGGGCGAGGGCGGATATCCA 1618
Qy 1339 TTGAGTCTAAGTTGTTGAGGGGGGGGNTGGCTGAGAGAAATTAGAAGAAAGTGGG 1398
Db 1619 CTGAGTCAAGTACTTGTGGGAGAGAAATCCACTGAGTACAAGTACTTGTGGGGGAAGG 1678
Qy 1399 AAATGGGAAGCTTAAAGTCGGTGGTGGCGAGACTGTGCCC-----TGTGA 1450
Db 1679 AATGGCACAGCAAAAGTTGAAGGGAAAGAGGAAGATGAGAGGCCCTCAATGTTGGGG 1738
Qy 1451 TGTCAATGGGAAGCCAAAAATCGAGCGGTGTGAACCTTGATGCGCTGAAACATTTGAAAC 1510
Db 1739 TGTGAAGGTCACCTCTTTTCCATGTGTAGTGAGAGTTAAGAAAAATCAGTGTGTGAGTT 1798
Qy 1511 TATCAAAAAAAGTTTGTAGTGGGCGCCAGTAAAAAGGCCCTAGGACTTACTGAGAGG 1570
Db 1799 TGATGTCTTCAGACACCCCACTATGCGAGCTGTGGGAGACCTGGGCAATTTAGGGA-AGG 1857

Qy 1571 GCTTAATTTTCAATGAGATGTTTTTATGTACATTTCTTGTCTTAAGCATGCAATTTCTG 1630
Db 1858 CGCGGCTTTTCAACAGAGAACTTTATGCTCATCTCTGTGTCTACACTCCACCTTTGAT 1917
Qy 1631 GAGTAGCATGTAGGTTTTTATTCCTTACAGAAATTTGCAATAACTACTCCGCTCTTTCCAC 1690
Db 1918 GAGGTTAAGCTCAGGTTTCGTTTCT-----ACCGTCTCTTGTCTAC 1956
Qy 1691 AAATGCAAACTCAGTAGGATTTCCCAAGATGAAGAGAGTCTCTTGTAGGGAAGTGA 1750
Db 1957 TGGTGGAACTTCAGTAGGATTTCCCAAGACGAGGACAGCTCTTCTGTAAAGGAGGAC 2016
Qy 1751 CTGGAATTCGCGCTCCAAAGGAAATCAAGAGCTCAGAAATCTAGGTCACTGTTGAAATC 1810
Db 2017 CTGGAATTCAGTGTCTTAGAGAACGAAATAGCTCAGAGAAATCTAGGTCAACGCTGAAATCT 2076
Qy 1811 TAGGTCAATTTGGGCAAAATTAATAAGAGCTTTAAATCCAGGTGAATTTGACTTACTCTC 1870
Db 2077 AGGTCAAGCGGGCAAAATTAATAAGAGCTTTAAATCCAGGTGAATTTGACTTACTCTC 2136
Qy 1871 CATGGGTGCGAGGTTTATAAAGTTTCAGCAACAATTAAGATAGTTATGCTTGTATTG 1930
Db 2137 AGATATACTAGGATTTGGGCTCCACCGGATAGATTTCTGTAGTGA-GTCTGCTTTTA 2195
Qy 1931 TTTTATAGCATATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAGG 1990
Db 2196 TTTTGCAGCATACAGTGGTGAACGACCAAGAACTCCAGAAAGATGTGAGAAGGCTGAAGG 2255
Qy 1991 ACACAGTGAAGAGGTAGGACTGATTAATCTCAATGCTAATGCTAATGCAATAGGAGAGACA 2050
Db 2256 AGACAGTGAAGAGGTACTATTGGCAAGCCACAATACTAAGCCATTCAGTAGSAGAGGTG 2315
Qy 2051 AATGTTGTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 2110
Db 2316 GGAATTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 2373
Qy 2111 CTACCACAGGGCGAATF----ACTTTGGTGTGTGTATGTAGATATATCTATATATCTA 2166
Db 2374 CTACTGTCTGGTCCATTTACTCACTTAGCTGCACCTGCATCTAGCTGGGTCTATAGATCTT 2433
Qy 2167 GATGTCAGTTTCCAAATCTTGCAAAATTTGTAAGATTTCTAGAACTGGTGGGATCTTAGCTT 2226
Db 2434 TCAATCTGTCTTAAATTT---GTAAGTCAAAATTCGGAGCTAGCAGAAAGCTTAGCTC 2490
Qy 2227 GTCTAGTCAATAACCTCAGATTTCTGGGATGTCAGTGCAGAGATAGGCTAGAAATGC 2286
Db 2491 AGCAGTCTCATGAGCACTTGTCTGGAGGATGGCTTGTGACAGAGTCAATGCTAGAGAC 2550
Qy 2287 AGGTCTCTGAAATCCCAAGCCAGCACCTTTCCCGGTGGTGATACAGATTTAGTTTGGTAC 2346
Db 2551 AGCATCCCTGATTTCCAGCTCTGCAC--TTGCCCTAGTGCACCGTGAATTTAGCTT 2609
Qy 2347 CATTAATCTTAGGAAATTTTCAATTTCTTATGATCTATGATCTGTAAGAGTACTTGT 2406
Db 2610 GATTAAGTATTGGGAAA--GCCAAATTTCCACCCAGCTACATATCCGAAAGACATGCA 2667
Qy 2407 TTTAAAAACAGAAAAATGCTTATGGGCAATTTTATTTGAAGTCAATTTTGAAGTCATTAA 2466
Db 2668 TTGAAAACTAGAAA----GCTGGGCAAAAATTTACTAGAGATGATTTTGGAGCTCATTTAA 2723
Qy 2467 TGCATTTGCTTTGAACTTGAAGAATAAATCAGAAACAATCAGAAAAAGAGCTGCACTGC 2526
Db 2724 ACTGATGCTCTGAAAATGTGATCAAAATCAACCCAGAAATAACAACAAAAGAGCTGATTCG 2783
Qy 2527 ATATAGGGCTAATTTCTGGAGTAAATAAACACTTAT-----TTTGAATTTATCATATA 2578
Db 2784 AAATAGGACAAAGTATTTAGAATCACTGGTATTAAACAGCTCTCATCTTTAAATTAATATAG 2843
Qy 2579 TCT---ATCAGATATTGATTATAGTTTAAAGCAAGAGCAGAGACAAC--CCGATCTCTTTT 2634
Db 2844 TGCTATTAGTCCCTATTATTAAGATTAAACAAAGAGTGGATTAATTTCCCAATTTTACTG 2903


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Db 181 CTTGACAAAGTCCAACTCCAGCAGCCCTATATACCAACCGCACCTTCATGCTGGCTAAG 240
Qy 255 GAGG 258
Db 241 GAGG 244

RESULT 6
US-11-177-987-18
; Sequence 18, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 18
; LENGTH: 418
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-11-177-987-18

Query Match 3.3%; Score 159.4; DB 7; Length 418;
Best Local Similarity 99.4%; Pred. No. 1.1e-32;
Matches 160; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4637 ACAGCTTGGAGAGAGTGAGAGATCAAGCAATTTGGAGAACTGGATTGCTGTTTATGTC 4696
Db 157 AAAGCTTGGAGAGAGTGAGAGATCAAGCAATTTGGAGAACTGGATTGCTGTTTATGTC 216

Qy 4697 TCTGAGAAATGCTGCAATTTGACAGAGCAAGCTGAAAAATGAATACTAACCCCTTT 4756
Db 217 TCTGAGAAATGCTGCAATTTGACAGAGCAAGCTGAAAAATGAATACTAACCCCTTT 276

Qy 4757 CCTGCTAGAAATAACAAATTAGATGCCCAAGCGATTTT 4797
Db 277 CCTGCTAGAAATAACAAATTAGATGCCCAAGCGATTTT 317

RESULT 7
US-11-177-987-9
; Sequence 9, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-11-177-987-9

Query Match 2.6%; Score 126; DB 7; Length 1119;
Best Local Similarity 71.1%; Pred. No. 1.9e-23;
Matches 165; Conservative 0; Mismatches 65; Indels 0; Gaps 0;

Qy 29 CTCCTTCCCCCAGTCACAGTTGCTCGAGTTAGAAATGTCTGCAATGGCGCCCTGCAGAA 88
Db 9 CTCCTCTCACTATATCAACTGTTGACACTTGTGCGNATCTCTATGGCTGCTCTGCAGAA 68

Qy 89 ATCTGTAGAGCTCTTTCTTATGGGACCCCTGTATGGGACCCCTGCACACAGCTGCTCTCTTGGCCCT 148
Db 69 ATCTATGAGTTTTCCTTATGGGACTTTTGGCCGACGCTGCTGCTCTCTATGGCCCT 128

Qy 149 CTTGGTACAGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGAGGCTTGCAGAGTCCAA 208
Db 129 GTGGGCCCAAGGAGGCAAAATGCGTCCCGCTCAACACCCCGTGAAGCTTGAAGTGTCAA 188

Qy 209 CTTCCAGCAGCCCTATATCAACCAACCGCACCTTTCATGCTGGCTAAGGAGG 258
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; SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-11-177-987-9

Query Match 2.7%; Score 127.6; DB 7; Length 1111;
Best Local Similarity 72.2%; Pred. No. 7e-24;
Matches 166; Conservative 0; Mismatches 64; Indels 0; Gaps 0;

Qy 29 CTCCTTCCCCCAGTCACAGTTGCTCGAGTTAGAAATGTCTGCAATGGCGCCCTGCAGAA 88
Db 7 CTCCTCTCACTATATCAACTGTTGACACTTGTGCGNATCGTGATGGCTGCTCTGCAGAA 66

Qy 89 ATCTGTAGAGCTCTTTCTTATGGGACCCCTGTATGGGACCCCTGCACACAGCTGCTCTCTTGGCCCT 148
Db 67 ATCTATGAGTTTTCCTTATGGGACTTTTGGCCGACGCTGCTGCTCTCTATGGCCCT 126

Qy 149 CTTGGTACAGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGAGGCTTGCAGAGTCCAA 208
Db 127 GTGGGCCCAAGGAGGCAAAATGCGTCCCGCTCAACACCCCGTGAAGCTTGAAGTGTCAA 186

Qy 209 CTTCCAGCAGCCCTATATCAACCAACCGCACCTTTCATGCTGGCTAAGGAGG 258
Db 187 CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTCATGCTGGCCCAAGGAGG 236
```

RESULT 8

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US-11-177-987-7
; Sequence 7, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 7
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-11-177-987-7

Query Match 2.6%; Score 126; DB 7; Length 1119;
Best Local Similarity 71.1%; Pred. No. 1.9e-23;
Matches 165; Conservative 0; Mismatches 65; Indels 0; Gaps 0;

Qy 29 CTCCTTCCCCCAGTCACAGTTGCTCGAGTTAGAAATGTCTGCAATGGCGCCCTGCAGAA 88
Db 9 CTCCTCTCACTATATCAACTGTTGACACTTGTGCGNATCTCTATGGCTGCTCTGCAGAA 68

Qy 89 ATCTGTAGAGCTCTTTCTTATGGGACCCCTGTATGGGACCCCTGCACACAGCTGCTCTCTTGGCCCT 148
Db 69 ATCTATGAGTTTTCCTTATGGGACTTTTGGCCGACGCTGCTGCTCTCTATGGCCCT 128

Qy 149 CTTGGTACAGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGAGGCTTGCAGAGTCCAA 208
Db 129 GTGGGCCCAAGGAGGCAAAATGCGTCCCGCTCAACACCCCGTGAAGCTTGAAGTGTCAA 188

Qy 209 CTTCCAGCAGCCCTATATCAACCAACCGCACCTTTCATGCTGGCTAAGGAGG 258
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Db 189 CTTCCAGCAGCGTACATGTCACCGCACCTTTATGCTGGCCAAAGGAG 238
|||||

RESULT 9

US-11-121-086-71/c
; Sequence 71, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 71
; LENGTH: 164527
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-71

Query Match 2.5%; Score 121.6; DB 7; Length 164527;
Best Local Similarity 75.8%; Pred. No. 7.9e-21; Mismatches 49; Indels 8; Gaps 2;
Matches 179; Conservative 0;
Qy 4027 GATGTTTAAATCAGGAGTGTCATATTTGGCTTCCCTGGACACCTTGA-----AA 4080
Db 116406 GGTGTTCTAAATAGGGGTGTCGATCTTCCTGGCCACATTGGAAGAAGAA 116347
Qy 4081 GAATGTCTTGGTACACATAAATAACAAG--ACATAGCTGATGAGCTTAAAGATC 4138
Db 116346 GAATGTCTTGGCCACACATAAATACTTAACACATAGCTGATGAGCTTAAAAAAAT 116287
Qy 4139 CATGCATTAATCTCATCTGTTTAAAGAAAGTTTATGAATTTCTGTTAGGCTGCATTCAA 4198
Db 116286 CACAAAAAATCTCTTAATGTTTAAAGAACTTTACAAATTTGTTGGCCGCGATTCAA 116227
Qy 4199 AGCTGTCTGGCCATGTCGGCTGTGGCTGTCAGAGTTGGACAGCTTCCTTTATAA 4254
Db 116226 AGCGTCTTAGCCACATGTGCCCATGGCCATGGGTTGCAAGTTGTTCTTAA 116171

RESULT 10

US-10-995-561-13312
; Sequence 13312, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13312
; LENGTH: 130472
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13312

Query Match 2.5%; Score 118.6; DB 6; Length 130472;
Best Local Similarity 74.3%; Pred. No. 4.3e-20; Mismatches 54; Indels 8; Gaps 2;
Matches 179; Conservative 0;
Qy 4031 TTTTAAATCAGGAGTGTCATATTTGGCTTCCCTGGACACCTTGAAGAAGATTTGCTT 4090
Db 11104 TTGTAGATCAGGGGTGTCATCTTTTGGCTTCCCGGCCACATTGGAAGAATTTGCTT 11163

Qy 4091 GGTACACACATAAAAT-----ACAAGAACAATAGCTGATGAGC--TAAAAAAGTCATG 4142
Db 11164 GGGCCACAGATAAAATACACTAACATAGCTGATAAGCTTTAAAAAAGTGCAT 11223
Qy 4143 CATAAATCTCATACTGTTTAAAGAAAGTTTATGAATTTCTGTTAGGCTGCATTCAAGCT 4202
Db 11224 AAAAAATCTCACAGTGTGTTTAAACAAAGTTTATGAATTTGTTGGGTCACCTTTCAAAGCT 11283
Qy 4203 GTCCTGGCCATGTGCGGCTGTGGCTGCAGCTTGGACAAGCTCCTTTATAAGTAATCTG 4262
Db 11284 GTGGTGGCTGCATGACGCCCTAGGCTGTGGCTTGGACAAGCTTCTGTAGATTTATT 11343
Qy 4263 T 4263
Db 11344 T 11344

RESULT 11

US-11-121-086-58/c
; Sequence 58, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 58
; LENGTH: 180654
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-58

Query Match 2.4%; Score 114; DB 7; Length 180654;
Best Local Similarity 75.8%; Pred. No. 9e-19; Mismatches 45; Indels 14; Gaps 3;
Matches 185; Conservative 0;
Qy 4028 ATGTTTTAAATCAGGAGTGTCATATTTGGCTTCCCTGGACACCTTGA-----AAG 4081
Db 110206 ATATTTAGAACAGGTTGTCATCTTTGGCTTCCCTGGCCACATTGGAAGAAG 110147
Qy 4082 AATTGCTTGTGACACATATAAATAACAAGACA-----ATAGCTGATGAGCT--AAAA 4133
Db 110146 AATTGCTTGGGACACATATAAATAACAATACTAACGATTCGTGATGAGCTTAAAAA 110087
Qy 4134 AAGTCCATGCATAAATCTCATCTGTTTAAAGAAAGTTTATGAATTTCTGTTAGGCTGCA 4193
Db 110086 AAATCACAATAAAGTCTCTTAATGTTTAAAGAAAGTTTATGAATTTCTGTTAGGCTGCA 110027
Qy 4194 TTCAAAGCTGTCCTGGCCATGTGGCTGTGGCTGTGGCTGTGGCAAGCTTCCTTTATA 4253
Db 110026 TTCAAAGCTTCTTGGCTGTGGCTGTGGCTGTGGCTGTGGCAAGCTTATTTAG 109967
Qy 4254 AGTA 4257
Db 109966 AGTA 109963

RESULT 12

US-11-121-086-106/c
; Sequence 106, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000

; CURRENT APPLICATION NUMBER: US/11/121.086
; PRIOR FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 106
; LENGTH: 179777
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-106

Query Match 2.4%; Score 113.8; DB 7; Length 179777;
Best Local Similarity 74.1%; Pred. No. 1e-18;
Matches 177; Conservative 0; Mismatches 47; Indels 15; Gaps 2;
Qy 4023 TAGAGATGTTTAAATCAGAGGTGTCCAATCATTTGGCTTCCCTGGACCACTTGAAGA 4082
Db 120599 TAGAGATTTAGCTTCAGGACTGTTCAATCTTTTGGCTTCCCTGGGCCACATTTGAAGA 120540
Qy 4083 ATTGCTTGTGTACACATATAAATACAGAACCA-----ATAGCTGATGAGCTAAAAAG 4136
Db 120539 ATTGCTTGTGTACACATATAAATACAGAACCACTAATGATAGCTGTTGAATTAATAA 120480
Qy 4137 TCCATGC-----ATAAATCTCATACTGTTTAAAGAAAGTTTATGAATTTCTGTAG 4187
Db 120479 AAAAATGCCAAAAAATAATTTTCAATATGTTTAAAGAAAGTTTATGAATTTGTGTGG 120420
Qy 4188 GGTGCATTCAAAGCTGTCCTGGGCAATGTCGGGCTGTGGGCTGCAGGTTGGACAGCT 4246
Db 120419 GCCGCAATCAAAGCCGTCCTGGGCTGTCATGTGGCCCAAGGCGGTGGAACAAGCT 120361

RESULT 13

US-11-121-086-60
; Sequence 60, Application US/11/121.086
; Publication No. US20050286459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121.086
; PRIOR FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 60
; LENGTH: 191091
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-60

Query Match 2.3%; Score 112.4; DB 7; Length 191091;
Best Local Similarity 76.5%; Pred. No. 2.5e-18;
Matches 179; Conservative 0; Mismatches 46; Indels 9; Gaps 3;
Qy 4021 AGTAGAGATGTTTAAATCAGAGGTGTCCTCAATCATTTGGCTTCCCTGGACCACTTG--- 4077
Db 147239 ATTATCCATGCCCTAGACCAAGGGGTGCCCATTTCTTTGGCTTCCCTGGGCTCTTTGGAA 147298
Qy 4078 AAAGAATTTGCTTGGTACACACATATAAATACAGAACCA-----ATAGCTGATGAGCTAAA 4132
Db 147299 GAAGAAATTTGCTTGGGTACACATATAAATGCACTTAACATTAACATAGCTAATAGCTAAA 147358
Qy 4133 AAAGTCCATGATAAATCTCATCTGTTTAAAGAAAGTTTATGAATTTCTGTAGGCTGC 4192
Db 147359 AAAATCCCCCA-AAAATCTCATAGTGTGTTGAAGAAAGTTTACGAATTTGTGTTGGTGCAC 147417
Qy 4193 ATTCAAAGCTGTCCTGGGCAATGTCGGGCTGTGGGCTGCAGGTTGGACAGCT 4246
Db 147418 ATTCAAAGCCATCCTGGGCGGCATGAGGCTGTGGGCGGTGGGCTTGGACAGGCT 147471

RESULT 14

US-10-995-561-13396
; Sequence 13396, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995.561
; PRIOR FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 13396
; LENGTH: 398287
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(398287)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-10-995-561-13396

Query Match 2.3%; Score 110.4; DB 6; Length 398287;
Best Local Similarity 73.3%; Pred. No. 1.4e-17;
Matches 173; Conservative 0; Mismatches 51; Indels 12; Gaps 2;
Qy 4036 AATCAGAGGTGTCCAATCATTTGGCTTCCCTGGACCACTTG---AAAGAAATTTGCTTTGG 4092
Db 78384 AAGCTGGGTGTCCAATCTTTTGGCTTCCCTGGGTCACTGGAAGAAGAAATCGCCTTGG 78443
Qy 4093 TACACACATAAATAACAGAACATAGCTGATGAGCTTAAAGATCCATCATTAATCTC 4152
Db 78444 GCCACACATGAATATACTAACTAGCTGATGAGCTTAAAGAAAGAAAGAAAGAAATCAC 78503
Qy 4153 ATACTGT-----TTTAAAGAAAGTTTATGAATTTCTTTAGGGTGCATTTCAAGCTG 4203
Db 78504 AGAAATCTCATATGTTTAAAGAAAGTTTACGATTTGTTGGGCGCTTTCAAGGCCA 78563
Qy 4204 TCCTGGGCCATGTGCGGCTGTGGCTGCGAGTTGGACAAAGCTCTTTATAGTAAT 4259
Db 78564 CCCTGGGCTCATGCGCGCGTGGGCCACACAGGTTGGACAAAGCTTGTCTTAAGCAGT 78619

RESULT 15

US-11-112-908-54/c
; Sequence 54, Application US/11112908
; Publication No. US20050260659A1
; GENERAL INFORMATION:
; APPLICANT: Harris, Cole
; APPLICANT: Davis, Lisa M.
; TITLE OF INVENTION: Breast Cancer Biomarkers
; FILE REFERENCE: 04-164-US
; CURRENT APPLICATION NUMBER: US/11/112.908
; CURRENT FILING DATE: 2005-04-22
; PRIOR APPLICATION NUMBER: US 60/564,758
; PRIOR FILING DATE: 2004-04-23
; PRIOR APPLICATION NUMBER: US 60/575,978
; PRIOR FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/631,702
; PRIOR FILING DATE: 2004-11-30
; PRIOR APPLICATION NUMBER: US 60/633,826
; PRIOR FILING DATE: 2004-12-07
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 54
; LENGTH: 150450
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-112-908-54

Thu Dec 22 12:53:37 2005

Query Match	2.2%	Score 107.8;	DB 7;	Length 150450;
Best Local Similarity	72.2%	Pred. No. 3.6e-17;		
Matches 174;	Conservative 0;	Mismatches 52;	Indels 15;	Gaps 2;
QY	4037	ATCAGAGTGTCCAATCATTTGGCTTCCCTGGACCACTTGA---AAGAATTGTCTTGGT	4093	
Db	101528	ATCAGGGGTGTCCAATCTTTTGGCTTCCCTGAGCCACATTGGAGAAGAATTGTCTTGGG	101469	
QY	4094	ACACACATAAAATCAAGAACA-----ATAGCTGATGAGCTTAAAAAAGTCCAT	4141	
Db	101468	CTACATATAACATACACTAACACTAATACTAATGATAGCTGATGAACCTTAAACAAAAAA	101409	
QY	4142	GCATAAATCTCATACTGTTTTAAGAAAGTTTATGAATTTCTGTTAGGGTGCATTCAAAGC	4201	
Db	101408	GCAAAAAGTCTTAATGTTTTAGAAAAGTTTACAAATTTGTGTGGTCCCACTTCAAAGC	101349	
QY	4202	TGTCCTGGGCCATGTGGGCCTGTGGGCTGCAGGTTCGACAAAGCTCCTTATTAAGTAATCT	4261	
Db	101348	TATCCTGGACCACATGCAGCCTGTGGGTGTCAGGATAGACAAGCTTGCTTTAGATGATTT	101289	
QY	4262	G 4262		
Db	101288	G 101288		

Search completed: December 21, 2005, 18:12:04
Job time : 355.473 secs

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OM nucleic - nucleic search, using sw model

Run on: December 20, 2005, 13:17:12 ; Search time 671.791 Seconds
(without alignments)
15704.028 Million cell updates/sec

Title: US-09-751-797-29

Perfect score: 5935

Sequence: 1 gaattcaagtcacatgcaa.....atattatctgtaagtttg 5935

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:*

- 1: /cgn2_6/ptodata/1/ina/1 COMB.seq.*
- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq.*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
- 5: /cgn2_6/ptodata/1/ina/H COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq.*
- 7: /cgn2_6/ptodata/1/ina/PP COMB.seq.*
- 8: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
- 9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	5935	100.0	5935	3	US-09-178-973B-17
2	5935	100.0	5935	3	US-09-419-568F-29
3	5935	100.0	5935	3	US-09-354-243B-29
4	4245.2	71.5	7445	3	US-09-178-973B-8
5	4245.2	71.5	7445	3	US-09-419-568F-8
6	4245.2	71.5	7445	3	US-09-354-243B-8
7	651.8	11.0	8888	3	US-09-949-016-17185
8	650	11.0	4797	3	US-09-419-568F-25
9	650	11.0	4797	3	US-09-354-243B-25
10	602.4	10.1	1111	3	US-09-178-973B-9
11	602.4	10.1	1111	3	US-09-419-568F-9
12	602.4	10.1	1111	3	US-09-354-243B-9
13	555.2	9.4	1119	3	US-09-178-973B-7
14	555.2	9.4	1119	3	US-09-419-568F-7
15	555.2	9.4	1119	3	US-09-354-243B-7
16	555.2	9.4	1166	3	US-10-084-298-3
17	541.4	9.1	1050	3	US-10-090-365-40
18	218.4	3.7	1191	3	US-10-084-298-1
19	216.4	3.6	1116	3	US-10-090-365-14
20	216.4	3.6	1116	3	US-09-728-311-14
21	215	3.6	1152	3	US-09-870-574-1
22	171.8	2.9	601	3	US-09-949-016-190092
23	162	2.7	264665	3	US-09-949-016-13747
24	158.8	2.7	7218	2	US-08-232-463-14

c	25	154.2	2.6	2674	3	US-09-019-095A-1	Sequence 1, Appli
	26	153.4	2.6	270	3	US-09-443-282B-32	Sequence 32, Appl
	27	152	2.6	254	3	US-09-443-282B-33	Sequence 33, Appl
	28	151.8	2.6	1583	3	US-09-270-767-11302	Sequence 11302, A
c	29	151.2	2.5	4598	2	US-07-807-043B-5	Sequence 5, Appli
c	30	151.2	2.5	4598	2	US-08-299-843B-5	Sequence 5, Appli
c	31	151.2	2.5	4598	2	US-08-142-368A-5	Sequence 5, Appli
c	32	151.2	2.5	4598	3	US-08-967-727-5	Sequence 5, Appli
c	33	151.2	2.5	4598	3	US-08-037-230D-5	Sequence 5, Appli
c	34	151.2	2.5	4598	3	US-09-583-850-5	Sequence 5, Appli
c	35	151.2	2.5	4598	3	US-09-579-197-5	Sequence 5, Appli
c	36	151.2	2.5	4598	3	US-09-404-026-5	Sequence 5, Appli
c	37	151.2	2.5	4598	3	US-09-312-464-5	Sequence 5, Appli
c	38	151.2	2.5	4598	3	US-09-583-848A-5	Sequence 6, Appli
c	39	140.2	2.4	2147	3	US-08-927-165A-6	Sequence 3, Appli
c	40	137.2	2.3	3892	2	US-08-555-723B-3	Sequence 3, Appli
c	41	137.2	2.3	3892	3	US-09-123-465-3	Sequence 1, Appli
c	42	134.8	2.3	2509	3	US-09-319-284-1	Sequence 96, Appl
c	43	133.6	2.2	7874	3	US-09-780-175-96	Sequence 96, Appl
c	44	131.6	2.2	30310	3	US-09-657-346A-96	Sequence 5, Appli
c	45	131.6	2.2	90050	3	US-09-245-041-5	Sequence 5, Appli

ALIGNMENTS

RESULT 1

US-09-178-973B-17

; Sequence 17, Application US/09178973B

; Patent No. 6274710

; GENERAL INFORMATION:

; APPLICANT: Dumoutier, Laure

; APPLICANT: Louhed, Jamila

; APPLICANT: Renauld, Jean-Christophe

; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac

; TITLE OF INVENTION: (TIPS)

; FILE REFERENCE: LUD 5543

; CURRENT APPLICATION NUMBER: US/09/178,973B

; CURRENT FILING DATE: 1998-10-26

; NUMBER OF SEQ ID NOS: 17

; SEQ ID NO 17

; LENGTH: 5935

; TYPE: DNA

; ORGANISM: Mus musculus

US-09-178-973B-17

Query Match	100.0%;	Score 5935;	DB 3;	Length 5935;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 5935;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	GAATTCAGTCCACATGCAATCGAATACCTTTGTAATCTCTCTTCAAAATCC	60	
Db	1	GAATTCAGTCCACATGCAATCGAATACCTTTGTAATCTCTCTTCAAAATCC	60	
Qy	61	ATCTATATAGTATAAGTTATTGTAGCATCATTTAAAAATAATGTTTGAGACTTATGTTT	120	
Db	61	ATCTATATAGTATAAGTTATTGTAGCATCATTTAAAAATAATGTTTGAGACTTATGTTT	120	
Qy	121	GCAACAGTAAATGTGAGAGAGAAATGACAAATGTATAGTATTTATTTTAAAAAAT	180	
Db	121	GCAACAGTAAATGTGAGAGAGAAATGACAAATGTATAGTATTTATTTTAAAAAAT	180	
Qy	181	CTATGCTTAAATGCTTATAGTATTTGCTACTGACATTTCCAACTTAACCTTGACCT	240	
Db	181	CTATGCTTAAATGCTTATAGTATTTGCTACTGACATTTCCAACTTAACCTTGACCT	240	
Qy	241	TGCTATGATTTCAACCTTTGTTATTTGCTACTGACATTTCCAACTTAACCTTGACCT	300	
Db	241	TGCTATGATTTCAACCTTTGTTATTTGCTACTGACATTTCCAACTTAACCTTGACCT	300	
Qy	301	TATCCGACGAGCATGTTCCCTCGATGTTTTCGCTTTTTCGCTCTCTCGCTAACGGCTCTC	360	
Db	301	TATCCGACGAGCATGTTCCCTCGATGTTTTCGCTTTTTCGCTCTCTCGCTAACGGCTCTC	360	

Db 301 TATCCGACGAGCATGTTCCCTGATGTTTTTGGCCCTTTTGCTCTCTCGCTAACAGGCTCTC 360
Qy 361 CTCTCAGTTATCAACTTTTGACACTTGTGGCATCGGTGATGGCTGTCTCTCGAGAAATCTA 420
Db 361 CTCTCAGTTATCAACTTTTGACACTTGTGGCATCGGTGATGGCTGTCTCTCGAGAAATCTA 420
Qy 421 TGAGTTTTTCCCTTATATGGGACTTTTGGCCGACAGTGCCTGCTTCTCTCATTTGCCCTGTGGG 480
Db 421 TGAGTTTTTCCCTTATATGGGACTTTTGGCCGACAGTGCCTGCTTCTCTCATTTGCCCTGTGGG 480
Qy 481 CCCAGGAGCAAAATGCGCTGCCCCATCAACACCCCGGTGCAAGCTTGAGGTGTCAAACTTCC 540
Db 481 CCCAGGAGCAAAATGCGCTGCCCCATCAACACCCCGGTGCAAGCTTGAGGTGTCAAACTTCC 540
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Db 541 AGCAGCGGTATCATCGTCAACCGGACCTTTATGCTGGCCCAAGGAGGTACAGTGCATCTCT 600
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Db 601 TTCTCTCCATACCGCTTGGCCATTTCTCTGAAGCACTTGCAAACTCTTTAGGGGCGCTTT 660
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Db 661 ATCTCCGAGGTCTCACTACCTATGTTTTCTGTCTCTTTAGAGACTCTTTTAAAGACTGGA 720
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Db 721 TCTTTTCTATTTCTATTTCAAGGTCTCAGGACCAATTTCTATCTTGGCCCTTCAGGACAC 780
Qy 781 ATATACTGAAATTTTATCTACAGAGCGGTTTTAGAAAGCCACCCACGACTGCAATATCTTT 840
Db 781 ATATACTGAAATTTTATCTACAGAGCGGTTTTAGAAAGCCACCCACGACTGCAATATCTTT 840
Qy 841 CCATCTCTGTGTGCTCTCTCTGAACTCATACTCTCTTGGCTACTCTCTGAGACCCACTGC 900
Db 841 CCATCTCTGTGTGCTCTCTCTGAACTCATACTCTCTTGGCTACTCTCTGAGACCCACTGC 900
Qy 901 GGACATACATCTCTACTTACAGGCTTTTCTTCCATCTCTCTGTGACCCAGGCACTTAGGG 960
Db 901 GGACATACATCTCTACTTACAGGCTTTTCTTCCATCTCTCTGTGACCCAGGCACTTAGGG 960
Qy 961 TTTTCTCTCTTTTACGGCCAGCTTGCAGATAACAACAACAGACGTCCTGCTCATCGGGAG 1020
Db 961 TTTTCTCTCTTTTACGGCCAGCTTGCAGATAACAACAACAGACGTCCTGCTCATCGGGAG 1020
Qy 1021 AAACCTGTTCCGAGGAGTCAGTGAAGTCTCTCACTGTGATGAGCAGGCTAGCTCCGGAG 1080
Db 1021 AAACCTGTTCCGAGGAGTCAGTGAAGTCTCTCACTGTGATGAGCAGGCTAGCTCCGGAG 1080
Qy 1081 CTGTTGGACCTCTGGGATAGTCTGACGTATGACCCCTGCTGCTTCTTGTCTACTCTGCAG 1140
Db 1081 CTGTTGGACCTCTGGGATAGTCTGACGTATGACCCCTGCTGCTTCTTGTCTACTCTGCAG 1140
Qy 1141 GCTAAGGATCAGTCTACTCTGATGAGCAGGTGCTCAACTTCACTCTGGAAGACATTTCTG 1200
Db 1141 GCTAAGGATCAGTCTACTCTGATGAGCAGGTGCTCAACTTCACTCTGGAAGACATTTCTG 1200
Qy 1201 CTCCCCAGTCAGACAGGTTCCGGCCCTTACATGAGGAGGTGGTCCCTTCTGACCAAA 1260
Db 1201 CTCCCCAGTCAGACAGGTTCCGGCCCTTACATGAGGAGGTGGTCCCTTCTGACCAAA 1260
Qy 1261 CTCAGCAATCAGCTCAGTCTCTGTGTGAAGTCTGGCTCTGGCTACCTATGCTCTCTCTCT 1320
Db 1261 CTCAGCAATCAGCTCAGTCTCTGTGTGAAGTCTGGCTCTGGCTACCTATGCTCTCTCTCT 1320
Qy 1321 TCCTCTTCTATTTCCAGTAAGAACCCGAGTCCCTGCTCTCTCTTCCAAAGAGTGAGG 1380
Db 1321 TCCTCTTCTATTTCCAGTAAGAACCCGAGTCCCTGCTCTCTCTCTTCCAAAGAGTGAGG 1380
Qy 1381 AGGGCTTCAGCACCAACCATCATFAGGCCACTTTGAAATAGGTCACAAGGCTTTGGCTT 1440
Db 1381 AGGGCTTCAGCACCAACCATCATFAGGCCACTTTGAAATAGGTCACAAGGCTTTGGCTT 1440

Qy 1441 CAATTGAGTAATACTTTTGTAGTTTATAGCTTTTATTTGTTTATCCATGGAAG 1500
Db 1441 CAATTGAGTAATACTTTTGTAGTTTATAGTTTATTTGTTTATCCATGGAAG 1500
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Db 1501 AAATCAACTCAAAATCTGTAGGATGAGAAAGATGTTGGGAAACGAAAAAGCCCTAGATAG 1560
Qy 1561 AGAAAAAGATCTCTCAGTACAGTACTTATGGGGGGGGGGGAGGGGGCGATATCCACT 1620
Db 1561 AGAAAAAGATCTCTCAGTACAGTACTTATGGGGGGGGGGGAGGGGGCGATATCCACT 1620
Qy 1621 GAGTCCAAAGTACTTGTGGGAGAGAAATCCACTGAGTACAAAGTACTTGTGGGGGAAGGAA 1680
Db 1621 GAGTCCAAAGTACTTGTGGGAGAGAAATCCACTGAGTACAAAGTACTTGTGGGGGAAGGAA 1680
Qy 1681 TGGCACAAGCAAAAGTTGAAGGGAAGAGATGGAGAGCCCTCAATGTTGGGGGTG 1740
Db 1681 TGGCACAAGCAAAAGTTGAAGGGAAGAGATGGAGAGCCCTCAATGTTGGGGGTG 1740
Qy 1741 TGAAGGTCACTCTCTTTTCCATGATGAGAGTTAAGAAAAATCAGTGTGTGAGTTG 1800
Db 1741 TGAAGGTCACTCTCTCTTTTCCATGATGAGAGTTAAGAAAAATCAGTGTGTGAGTTG 1800
Qy 1801 ATGCTTTCAGACACCCCACTATGGCAGACTGTGGGAGACTTGGCATTTTAGGGAAGCGC 1860
Db 1801 ATGCTTTCAGACACCCCACTATGGCAGACTGTGGGAGACTTGGCATTTTAGGGAAGCGC 1860
Qy 1861 GGCTTTTTCACACGAGAAACTTTTATGCTCATCTCTGTGTACACTCCCACTTTTGTAGT 1920
Db 1861 GGCTTTTTCACACGAGAACTTTTATGCTCATCTCTGTGTACACTCCCACTTTTGTAGT 1920
Qy 1921 GTTAAGCTCAGGTTTCGTTTCTACCGTTCTTGTCTGCTGTTGGAACCTTTCAGTAGGATTC 1980
Db 1921 GTTAAGCTCAGGTTTCGTTTCTACCGTTCTTGTCTGCTGTTGGAACCTTTCAGTAGGATTC 1980
Qy 1981 CCAAGACAGGAGCAGCTCTTCTGTAAGGAGGAGCCTGATTTTTCAGTGTCTTAGAGAAC 2040
Db 1981 CCAAGACAGGAGCAGCTCTTCTGTAAGGAGGAGCCTGATTTTTCAGTGTCTTAGAGAAC 2040
Qy 2041 GAAATAGCTCAGAGAAATCTAGGTCAACGTGAAATCTAGGTCAACGTGAAATCTAGGT 2100
Db 2041 GAAATAGCTCAGAGAAATCTAGGTCAACGTGAAATCTAGGTCAACGTGAAATCTAGGT 2100
Qy 2101 GAAGCCTCTATTCCAGGTGAAACGCTCAGTGTCTGATATATCTGAGTATTTGGGCTCC 2160
Db 2101 GAAGCCTCTATTCCAGGTGAAACGCTCAGTGTCTGATATATCTGAGTATTTGGGCTCC 2160
Qy 2161 CACCGATAAGATTTCTGTAGTGTCTGCTTTTATTTTTCAGCACATCAGTGTGACGA 2220
Db 2161 CACCGATAAGATTTCTGTAGTGTCTGCTTTTATTTTTCAGCACATCAGTGTGACGA 2220
Qy 2221 CCAGAACATCCAGAAATGTCAAGGCTGAAAGGAGACAGTGAAGGCTACTATTGGC 2280
Db 2221 CCAGAACATCCAGAAATGTCAAGGCTGAAAGGAGACAGTGAAGGCTACTATTGGC 2280
Qy 2281 AAGCCAAATCTAAGCCATTCAGTAGGAGACGTGGGGATTTCTTCTCTGCTTCCAGT 2340
Db 2281 AAGCCAAATCTAAGCCATTCAGTAGGAGACGTGGGGATTTCTTCTCTGCTTCCAGT 2340
Qy 2341 CTCTTCTACTTTGTAAACATTTTCTTGTCTACTGTCTGCTGCTTCTCTGCTTCCAGT 2400
Db 2341 CTCTTCTACTTTGTAAACATTTTCTTGTCTACTGTCTGCTGCTTCTCTGCTTCCAGT 2400
Qy 2401 CTGCACCTGCACTAGCTGGGTCTATAGATCTTTTCAATCTGTGTCTAAATTTGTAAGTCA 2460
Db 2401 CTGCACCTGCACTAGCTGGGTCTATAGATCTTTTCAATCTGTGTCTAAATTTGTAAGTCA 2460
Qy 2461 CAATTCTGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATATGAGCACTTGTCTGGAG 2520
Db 2461 CAATTCTGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATATGAGCACTTGTCTGGAG 2520

QY	2521	TGGCTTGTGACAGAGTCAATGCTAGAAAGACAGCATCCCTGATCTCCAGAGCTCTGCACTTGC	2580		3601	TTCAAGTCAACTTTTGACTTTTATACCATGCTGTGCATGAAAGAGTGTTTAGGCCCGCTCT	3660		
Db	2521	TGGCTTGTGACAGAGTCAATGCTAGAAAGACAGCATCCCTGATCTCCAGAGCTCTGCACTTGC	2580		QY	3661	CGTGGCTCTGGGAAAGACCAATAGCGGAAGAAATGTTATGCCGAGAAATCTGACTGGC	3720	
QY	2581	CTAGTGGCCAGCTGTAAATTAATTTAGCTGATTAAGTATTTGGGAAAGCCAAATTTCCCAACC	2640		Db	3661	CGTGGCTCTGGGAAAGACCAATAGCGGAAGAAATGTTATGCCGAGAAATCTGACTGGC	3720	
Db	2581	CTAGTGGCCAGCTGTAAATTAATTTAGCTGATTAAGTATTTGGGAAAGCCAAATTTCCCAACC	2640		QY	3721	AGGGAACCTGGGTTCAGAGCTCCCAAGACCACTACAGGTGTTAAAGTAGGAAACAGTCCGAG	3780	
QY	2641	GACCTACATAATCCGAAGAGCATGCAATGAAACTAGAAAGCTGGGCAACAACCTTACTA	2700		Db	3721	AGGGAACCTGGGTTCAGAGCTCCCAAGACCACTACAGGTGTTAAAGTAGGAAACAGTCCGAG	3780	
Db	2641	GACCTACATAATCCGAAGAGCATGCAATGAAACTAGAAAGCTGGGCAACAACCTTACTA	2700		QY	3781	GGTGGGTTTATATAATAAGAAATGGAACAGAGGGAGGAAGATAGACTACAAAGTTTCTATAG	3840	
QY	2701	GAGATGATTTTGGAGCTCAATTAACCTGATGCTCGAAATGTGATCAAAATCAACCAGAAAT	2760		Db	3781	GGTGGGTTTATATAATAAGAAATGGAACAGAGGGAGGAAGATAGACTACAAAGTTTCTATAG	3840	
Db	2701	GAGATGATTTTGGAGCTCAATTAACCTGATGCTCGAAATGTGATCAAAATCAACCAGAAAT	2760		QY	3841	GGTCTCTAAGTCTTTAAGATACAAAATAGCTGTGGCTTCTATAACAAAGGAAAGTCTGGG	3900	
QY	2761	AACAACAAAGAGCTGGAATTTGCAAAATAGCAAGTATTTAGATCACTGGTATTAACAG	2820		Db	3841	GGTCTCTAAGTCTTTAAGATACAAAATAGCTGTGGCTTCTATAACAAAGGAAAGTCTGGG	3900	
Db	2761	AACAACAAAGAGCTGGAATTTGCAAAATAGCAAGTATTTAGATCACTGGTATTAACAG	2820		QY	3901	AAGGCAGCAAGCAATTGAGAGGGAGATGGAAAGGGAAGAAACAAATGTAGAGGATTTGAAA	3960	
QY	2821	CTGTCACTTTAAATTAATAATATAGTGTCTATTTAGCTGCCTATTTAAGATTTAAACACAAGA	2880		Db	3901	AAGGCAGCAAGCAATTGAGAGGGAGATGGAAAGGGAAGAAACAAATGTAGAGGATTTGAAA	3960	
Db	2821	CTGTCACTTTAAATTAATAATATAGTGTCTATTTAGCTGCCTATTTAAGATTTAAACACAAGA	2880		QY	3961	GCTACAAATCTCTCCACGAGAGGATTTTCTTGAGGAAATCTAGAAACAAAGGTTGGTGATT	4020	
QY	2881	GTGGATAACTTCCAAATTTACTGGGCTGTGTTTCAATAGAGTAAATAATACAGTCATAGA	2940		Db	3961	GCTACAAATCTCTCCACGAGAGGATTTTCTTGAGGAAATCTAGAAACAAAGGTTGGTGATT	4020	
Db	2881	GTGGATAACTTCCAAATTTACTGGGCTGTGTTTCAATAGAGTAAATAATACAGTCATAGA	2940		QY	4021	AGTGTGATCGCAGAGGACTTGTCTTGGCCATTTGAAATCTGGGTTTGTCTCTCCATTGA	4080	
QY	2941	TTAATATAGTGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT	3000		Db	4021	AGTGTGATCGCAGAGGACTTGTCTTGGCCATTTGAAATCTGGGTTTGTCTCTCCATTGA	4080	
Db	2941	TTAATATAGTGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT	3000		QY	4081	GGTTGAGAGCGTCACCCCTTTTACCTCGATAGAGGAGGAAAGAGGGGTGTGTTTGAC	4140	
QY	3001	TCCTAGTATTAATTTTCTTCAACCTGATCAAGCCACTAGTAAGCACTATCTCTG	3060		Db	4081	GGTTGAGAGCGTCACCCCTTTTACCTCGATAGAGGAGGAAAGAGGGGTGTGTTTGAC	4140	
Db	3001	TCCTAGTATTAATTTTCTTCAACCTGATCAAGCCACTAGTAAGCACTATCTCTG	3060		QY	4141	TCCTAAGTGTGATTTTCTAGTTTACGCAATGGAACAGACACTCGGGGACCTCTCTCTTGAC	4200	
QY	3061	CTGCGAGCTATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT	3120		Db	4141	TCCTAAGTGTGATTTTCTAGTTTACGCAATGGAACAGACACTCGGGGACCTCTCTCTTGAC	4200	
Db	3061	CTGCGAGCTATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT	3120		QY	4201	AGAAAAAAGAAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAA	4260	
QY	3121	GGACAGGATAGCAGGAGGCTCAGGCTAGCAGTCTGGACTCAACCTTAAAGCCAGAGGCA	3180		Db	4201	AGAAAAAAGAAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAA	4260	
Db	3121	GGACAGGATAGCAGGAGGCTCAGGCTAGCAGTCTGGACTCAACCTTAAAGCCAGAGGCA	3180		QY	4261	GCACAGCAGCTGGGCGATGCTGGCCCATGCTTTAATCCAGCATTTGGGAGGCAGAGGC	4320	
QY	3181	TGGTTGATAGCAGAGAAAGTGAGCTCTTCAAGTGGGTGCTTAAAGTAATCAGAAAC	3240		Db	4261	GCACAGCAGCTGGGCGATGCTGGCCCATGCTTTAATCCAGCATTTGGGAGGCAGAGGC	4320	
Db	3181	TGGTTGATAGCAGAGAAAGTGAGCTCTTCAAGTGGGTGCTTAAAGTAATCAGAAAC	3240		QY	4321	AGGTGATCTTTCTAAATTTCAAGCCAGCTGGTCTCAAAAAGTGAGTTCAGGACAGCCAGG	4380	
QY	3241	AGGAAGGCTCTGGTTGATGGAATTTATCAGTAAGATATCTACCCCTTATCTCTCTCTAT	3300		Db	4321	AGGTGATCTTTCTAAATTTCAAGCCAGCTGGTCTCAAAAAGTGAGTTCAGGACAGCCAGG	4380	
Db	3241	AGGAAGGCTCTGGTTGATGGAATTTATCAGTAAGATATCTACCCCTTATCTCTCTCTAT	3300		QY	4381	GCTATACAGAGAAACCTGTCTCGGGAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAG	4440	
QY	3301	AGAAGCTAAACCGTCTCTCTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	3360		Db	4381	GCTATACAGAGAAACCTGTCTCGGGAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAG	4440	
Db	3301	AGAAGCTAAACCGTCTCTCTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	3360		QY	4441	AGAAGAGGAGAGGAGAGGAG	4500	
QY	3361	AGTGTTCATGCTTTCAGATTTTTCAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	3420		Db	4441	AGAAGAGGAGAGGAGAGGAG	4500	
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QY	3421	CTTGACACCTGGGCTTGGATGTTAGCATGCAAGGACACACTTCTGAAATGCTGTGTA	3480		Db	4501	AGGAGAGGAG	4560	
Db	3421	CTTGACACCTGGGCTTGGATGTTAGCATGCAAGGACACACTTCTGAAATGCTGTGTA	3480		QY	4561	AGGAGAGGAG	4620	
QY	3481	AAAGGTTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT	3540		Db	4561	AGGAGAGGAG	4620	
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QY	3541	ACAGGAGATGATTTCTCTGTAGGAAACTTTTTTCCCTTAAAGCCCTATTAATCCACT	3600		Db	4621	AGAAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAA	4680	
Db	3541	ACAGGAGATGATTTCTCTGTAGGAAACTTTTTTCCCTTAAAGCCCTATTAATCCACT	3600		QY	4681	GGTCTTTTGAGCAAGGCTTTTGAATTTGAGCGCTCATCAATAGTTGATCATGTTGAGGTGG	4740	
QY	3601	TTCAAGTCAACTTTTGACTTTTATACCATGCTGTGCATGAAAGAGTGTTTAGGCCCGCTCT	3660						

Db 4681 GGTCTTTGAGACAAAGGCTTTTGAATTGAGCGCTCATCAATAGTTGATCATGGTCAGGTGG 4740
Qy 4741 AGGCTACCTGTCAGGCGGAGCCCTGCTGGCTTAGCACTTAACTCTCCAGGTCTCAGTA 4800
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Qy 4801 TCACCTTCCTGCTGCTAGCACAGTTAGGAGTTGAGCAAAACCTTTTTCAAACCCCACT 4860
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Db 5041 AAGTCTTTGGCAATCATATTA TACTCATGTTAAAAATGCAATTA TGTGATTAATCAATC 5100
Qy 5101 TTTTAGAAGGCTGATCTTGGTTTGGTCTCAGCAAGCAAAATGTCAACAGCTCTTTC 5160
Db 5101 TTTTAGAAGGCTGATCTTGGTTTGGTCTCAGCAAGCAAAATGTCAACAGCTCTTTC 5160
Qy 5161 TAACTAGTACCATTAGAAAAATGCTACCCGTGCTCAAAATGGTTGTTATTTCTTATTTTC 5220
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Db 5221 ATAGCTTGGAGAGCGGAGAGATCAAAAGCGATCGGGAACTGGACCTGCTGTTTATGTC 5280
Qy 5281 TCTGAGAAATGCTTGGCTCTGAGCGAGAAAGCTAGNAAAACGAAGACTGCTCTTCTCT 5340
Db 5281 TCTGAGAAATGCTTGGCTCTGAGCGAGAAAGCTAGNAAAACGAAGACTGCTCTCTCTCT 5340
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Db 5341 GCCTTCTAAAAGAACATAAGATCCCTGGAATGACTTTTTTACTTAAAGGAAAGTGAGAA 5400
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Db 5461 TAGTGTCAAGTTGTCCATGACGACGAGGTAGACTTGTATACCAACCAAGATTCATTGACA 5520
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Qy 5761 ATTTATGATAATAACTATAGAAACAAAGATATCTTAGGCTTTTAAATAAACACATGAATATCA 5820
Db 5761 ATTTATGATAATAACTATAGAAACAAAGATATCTTAGGCTTTTAAATAAACACATGAATATCA 5820

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Db 5821 TAAATCTTGTCTGTGTAATTTTCTCCCTTTAATATCAACAATACCATCATCGTCATCA 5880
Qy 5881 TTACCCAATCATTCTCATGACTTCATGCTTGACTCATATATTATCTGGTAAAGTTTG 5935
Db 5881 TTACCCAATCATTCTCATGACTTCATGCTTGACTCATATATTATCTGGTAAAGTTTG 5935

RESULT 2
US-09-419-568F-29
; Sequence 29, Application US/09419568F
; Patent No. 6331613
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Lohued, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/09/419,568F
; CURRENT FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 29
; LENGTH: 5935
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-419-568F-29

Query Match 100.0%; Score 5935; DB 3; Length 5935;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 5935; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAATTCAGTCCACATCGAATCAATCCGAATCTTTGTAATTTCTCTTCAAAATATCC 60
Db 1 GAATTCAGTCCACATCGAATCAATCCGAATCTTTGTAATTTCTCTTCAAAATATCC 60

Qy 61 ATCTATATAGTATAAGTTATTGTAGGATCATTTAAAAATATGTTTGGAGACTTATGTTT 120
Db 61 ATCTATATAGTATAAGTTATTGTAGGATCATTTAAAAATATGTTTGGAGACTTATGTTT 120

Qy 121 GCACAAGTAAAAATGTCAGAGAGAAATTAGCAAAATGATAGTATTTATTTTAAAAAAT 180
Db 121 GCACAAGTAAAAATGTCAGAGAGAAATTAGCAAAATGATAGTATTTATTTTAAAAAAT 180

Qy 181 CTATGCTTAAAAATGCTATTAGATTGTTCACTACTGACATTTCCAAACTTAACTTGACCT 240
Db 181 CTATGCTTAAAAATGCTATTAGATTGTTCACTACTGACATTTCCAAACTTAACTTGACCT 240

Qy 241 TGGCTATTGATTTCAACCTTTGTTATTTGCATCTACCAATACTGTGTCTCACTTACCATGC 300
Db 241 TGGCTATTGATTTCAACCTTTGTTATTTGCATCTACCAATACTGTGTCTCACTTACCATGC 300

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Qy 361 CTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGCTCGAGAAATCTA 420
Db 361 CTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGCTCGAGAAATCTA 420

Qy 421 TGAGTTTTTCCCTTATAGGGGACTTTTGGCCGCGACGTGCTGCTTCTCATTTGCCCTGTGG 480
Db 421 TGAGTTTTTCCCTTATAGGGGACTTTTGGCCGCGACGTGCTGCTTCTCATTTGCCCTGTGG 480

Qy 481 CCCAGGAGGCAAAATGCGCTGCCCATCAACCCGGTGCAAGCTTGAGGTGCCAATTTCC 540
Db 481 CCCAGGAGGCAAAATGCGCTGCCCATCAACCCGGTGCAAGCTTGAGGTGCCAATTTCC 540

Qy	2701	GAGATGATTTTGGAGCTCATTAATACTGATGCTCTGAAATGTGATCAAAATCAACCAGAA	2760
Db	2701		2760
Qy	2761	AACAACAAAGAGCTGGATTTGC AAAATAGGACAAAGTATTTAGAAATCACTGATTAACAG	2820
Db	2761		2820
Qy	2821	CTGTCATCTTAATTAATAATATAGTGTCTATTTAGCTGCTATTTAAGATTTAAACACACA	2880
Db	2821		2880
Qy	2881	GTGGATAACTTCCCAATTTACTCGGCCCTGGTTTCAATAGAGTAAATAATACAGTCATAGA	2940
Db	2881		2940
Qy	2941	TTAATTAATAGTGTGATGAAGTATGAGTGTGAAACCCCTTCTTACTTTTTTACCTTCATT	3000
Db	2941		3000
Qy	3001	TCCTTAGTATTAATTTTTTTTCTTCAACCCCTGATCAAGCCACTAGTAAGCACCTTCTG	3060
Db	3001		3060
Qy	3061	CTGCGAGCTATTATATGACTTTTACAGCAACCAATGCTGTGTGGCTCTTTTGGGGAAG	3120
Db	3061		3120
Qy	3121	GGAAACAGGATAGCAGGAGGCTCAGGCTAGCAAGTCTGGACTCAACCTAAAGCCAGAGGCA	3180
Db	3121		3180
Qy	3181	TGGTTGATAGCAGAGAAAGTGAGGCTCTTCAAAAGTGGGTGCTTAAAGTAATCAGAAAC	3240
Db	3181		3240
Qy	3241	AGGAAGGCTCTGGTTGATGGAATTAATCAGTAAGATATCTACCCCTATCTCTCTCTAT	3300
Db	3241		3300
Qy	3301	AGAAAGCTAAACCGTCTCTCTCTTGTGTGTAGGCTGATAAACACCGCTGTGTTTCTTTTG	3360
Db	3301		3360
Qy	3361	AGTGTTCATGCTTTGCAAGATTTTCAGTGTCTGCGCAGTCTTGTGTAGAGGGTTGTGTAC	3420
Db	3361		3420
Qy	3421	CTTGACACTGGGCTTGGATGTTAGCATGCCAAAGGCCACACTTCTGAATGCTGTGTA	3480
Db	3421		3480
Qy	3481	AAAGGTTATTATTTCAATTTACTTTGTCTTTTGGAAAGGTGAAGTGTGTGAGAAAGAACTC	3540
Db	3481		3540
Qy	3541	ACAGAGATGATTTCTCTGTAGGAAAACCTTTTTTTTCCCTTAAAGCCATATATCCACT	3600
Db	3541		3600
Qy	3601	TTCACTCAACTTGTACTTTTATACCATGCTGTCAATGAAAGGTGTTTAGGCCCGCTCT	3660
Db	3601		3660
Qy	3661	CGTGCTCTGGGAAAAGCACAATAGGGGAAGAAATGTTATGCCAGAGAAATCTGACTGGC	3720
Db	3661		3720
Qy	3721	AGGGAAACTGGGTCTAGAGCTCCCAAGACCACTACAGGTGTTAAGTAGGAACAGTCGAG	3780
Db	3721		3780
Qy	3781	GGTGGGTTTCATATATAGAAATGGAACAGAGGGGAAGATAAGCTACAAAGTTTCATAG	3840

Db	3781	GGTGGGTTTCATATAATAGAAATGGAACAGAGGGAGGAAGATAAGCTACAAAGTTTCATAG	3840
Qy	3841	GGTCCTTAAGTCTTTAAGATACAAAATAGCTGGTTGGCTTTCATAACAAAGGAGTCTGGG	3900
Db	3841		3900
Qy	3901	AAGCAGCAAGCACTTGAAGGGAGATGGAAGGGGAAAAAAACAAATGTAGAGATTTGAAAA	3960
Db	3901		3960
Qy	3961	GCTACAAATCCTCCAAGAGGATTTTTCTTTGAGGGAATCTAGAACAAAGGGTGTGATTT	4020
Db	3961		4020
Qy	4021	AGGTGGATCCAGAGACTTCTTTGGCCATTTTGAATCTGGGTTTTTGTCTCTCCATTGA	4080
Db	4021		4080
Qy	4081	GGTTGAGAGCTCACCCCTTTTTTACCTCGATAGGAGGAGGAAGAGGGGTGTTTGGAC	4140
Db	4081		4140
Qy	4141	TCCTTACCTGGAGTTTTACTAGTTTTAGCAATGGAAACAGACACTCGGGACCTCTCTTGGAC	4200
Db	4141		4200
Qy	4201	AAGAAAAA AAAAAAAAAAAGGAAACCTGTTGTTTCTCTGTTGTTCTTTTGTAAAGAA	4260
Db	4201		4260
Qy	4261	GCACAGCAGCTGGCATGTTGGCCCATGCTTTAATCCAGCAATTTGGGAGGCAGAGGC	4320
Db	4261		4320
Qy	4321	AGGTGACTTTCTAAATTTCAAGGCCAGCTCGTCTACAAAAGTGAGTTCCAGGACACGCCAGG	4380
Db	4321		4380
Qy	4381	GCTATA CAGAGAAACCCCTGTCTGGGAAAAA AAAAAAAAAAAGAAAGAAAGAAAGAAAG	4440
Db	4381		4440
Qy	4441	AGAAAGCAGAGGAG	4500
Db	4441		4500
Qy	4501	AGGAGAGGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAG	4560
Db	4501		4560
Qy	4561	AAG	4620
Db	4561		4620
Qy	4621	AGAAAGGAAAAACCAAGCAAGCACTGGCAAGCATGCCACATGGGACCTGATGTG	4680
Db	4621		4680
Qy	4681	GGTCTTTGAGACAAAGGCTTTTGAATTTGAGCGCTCATCAATAGTTGATCATGGTGTG	4740
Db	4681		4740
Qy	4741	AGGGCTACTGTGACAGGCCCTGTCTGGCTTAGCACTTAACTCTCCAGGTCTCAGTA	4800
Db	4741		4800
Qy	4801	TCACCTTCTGCTCTAGCACAGTTAGGAGTTAGCAAAACCTTTTTTCCAAACCCCACT	4860
Db	4801		4860
Qy	4861	AAAAATTTAATTA CAAAGGCAAGTGAATTTTGTGGGATACAGTGTGATTAATTTGATG	4920
Db	4861		4920

Qy	721	TCCTTTTCTATTCTTATTTCAAGGTCTCAGGACCAATTTCTTATCTTGCCCTTCAGGACAC	780
Db	721	TCCTTTTCTATTCTATTCAAGGTCTCAGGACCAATTTCTTATCTTGCCCTTCAGGACAC	780
Qy	781	ATATACTGAAATTTTATCTACAGAGCGCGTTTAAAGAGCCACCCACGACTGCAATACTTTT	840
Db	781	ATATACTGAAATTTTATCTACAGAGCGCGTTTAAAGAGCCACCCACGACTGCAATACTTTT	840
Qy	841	CCATCCTGTTGTGCTCTCTTCTGAACCTCATACTCTCTTGGCTACTCTTGAGACCACCTGC	900
Db	841	CCATCCTGTTGTGCTCTCTTCTGAACCTCATACTCTCTTGGCTACTCTCTGAGACCACCTGC	900
Qy	901	GGACATACATCTCTACTTTACAGGCTTTTCTTCCATCTCTTGTGTACCCAGGACCTTAGGG	960
Db	901	GGACATACATCTCTACTTTACAGGCTTTTCTTCCATCTCTTGTGTACCCAGGACCTTAGGG	960
Qy	961	TTTTCTCTCTTTTCAGGCAGCCTTGCAGATAACACACAGACGTCCTCGGGGAG	1020
Db	961	TTTTCTCTCTTTTCAGGCAGCCTTGCAGATAACACACAGACGTCCTCGGGGAG	1020
Qy	1021	AAACTGTTCCAGAGAGTCAGTGAAGTCTCTCACTGTGATGAGCAGGGCTAGCTCGGGAG	1080
Db	1021	AAACTGTTCCAGAGAGTCAGTGAAGTCTCTCACTGTGATGAGCAGGGCTAGCTCGGGAG	1080
Qy	1081	CTGGTGGACCTCTGGGATAGTCTGACGTATGACCCCTGCTGCTTCTTGTCTACCTGCAG	1140
Db	1081	CTGGTGGACCTCTGGGATAGTCTGACGTATGACCCCTGCTGCTTCTTGTCTACCTGCAG	1140
Qy	1141	GCTAAGGATCAGTGTACTCTGATGAAGCAGGTGCTCAACTTCACCCCTGGAAAGACATTTCTG	1200
Db	1141	GCTAAGGATCAGTGTACTCTGATGAAGCAGGTGCTCAACTTCACCCCTGGAAAGACATTTCTG	1200
Qy	1201	CTCCCCAGTCAGACAGGTTCCGGCCCTPACATGACGAGGTGGTGCCTTCTCCTGACCAAA	1260
Db	1201	CTCCCCAGTCAGACAGGTTCCGGCCCTPACATGACGAGGTGGTGCCTTCTCCTGACCAAA	1260
Qy	1261	CTCAGCAATCAGTCTCCTGTGTAGTCTGGCTCTGGCTCTGCTACTATGCTCTCTCTCT	1320
Db	1261	CTCAGCAATCAGTCTCCTGTGTAGTCTGGCTCTGGCTCTGCTACTATGCTCTCTCTCTCT	1320
Qy	1321	TCCTCTTCTATTCCAGTAAGAACCCGAGGTCCTGCCCTCTCTCTCTTCCACAAGAGTGAGG	1380
Db	1321	TCCTCTTCTATTCCAGTAAGAACCCGAGGTCCTGCCCTCTCTCTCTTCCACAAGAGTGAGG	1380
Qy	1381	AGGGCTCAGCACCAACCAATCATAGGCCACTTGAATAAGGTCAAAAGGCTTTGGCTT	1440
Db	1381	AGGGCTCAGCACCAACCAATCATAGGCCACTTGAATAAGGTCAAAAGGCTTTGGCTT	1440
Qy	1441	CAATTGAGTAATCTTTGAGTTTGTATTAGTTAAGCTTTATTTGTTTTATCCATGGAAAG	1500
Db	1441	CAATTGAGTAATCTTTGAGTTTGTATTAGTTAAGCTTTATTTGTTTTATCCATGGAAAG	1500
Qy	1501	AAATCAACTCAAAATCTGTAGGATGAGAAAGATGTTGGGAACGAAAAGGCTTAGATAG	1560
Db	1501	AAATCAACTCAAAATCTGTAGGATGAGAAAGATGTTGGGAACGAAAAGGCTTAGATAG	1560
Qy	1561	AGAAACAGATCTGTGAOTACAGTACTTATGGGGGGGGGGGCGAGGGGGCGATATCCACT	1620
Db	1561	AGAAACAGATCTGTGTAGTACAGTACTTATGGGGGGGGGGGCGAGGGGGCGATATCCACT	1620
Qy	1621	GAGTCCAAAGTACTTTGCGGAGAGAAATCCACTGAGTACAAGTACTTCTGGGGGGAAGGAA	1680
Db	1621	GAGTCCAAAGTACTTTGCGGAGAGAAATCCACTGAGTACAAGTACTTCTGGGGGGAAGGAA	1680
Qy	1681	TGGCACAGACAAAGTTGAAGGGAAGAGGAAGATGAGAGGCTCAATGTTGGGGGTG	1740
Db	1681	TGGCACAGACAAAGTTGAAGGGAAGAGGAAGATGAGAGGCTCAATGTTGGGGGTG	1740
Qy	1741	TGAAAGGTCACTCCTTTTCCATGTGTGAGAGAGTTAAGAAATTCAGTGTGTGAGTTTG	1800
Db	1741	TGAAAGGTCACTCCTTTTCCATGTGTGAGAGAGTTAAGAAATTCAGTGTGTGAGTTTG	1800

Qy	1801	ATGTCTTCAGACACCCCAACTATGGCAGACTGTGGGAGACCTGGCAATTTAGGGAAGCGC	1860
Db	1801	ATGTCTTCAGACACCCCAACTATGGCAGACTGTGGGAGACCTGGCAATTTAGGGAAGCGC	1860
Qy	1861	GGCTTTTCAACGAGAAAACCTTTATGCTCATCTCTGTGTGTACACTCCACCTTTGTATGAG	1920
Db	1861	GGCTTTTCAACGAGAAAACCTTTATGCTCATCTCTGTGTGTACACTCCACCTTTGTATGAG	1920
Qy	1921	GTTAAGCTCAGGTTTCGTTTCTACCGTTCTTGTCTACTGTGTGGAACTTTCAGTAGGATTCC	1980
Db	1921	GTTAAGCTCAGGTTTCGTTTCTACCGTTCTTGTCTACTGTGTGGAACTTTCAGTAGGATTCC	1980
Qy	1981	CCAAAGACGAGGACAGCTCTTCTGTAGGGAGGACCTGGATTTTCAGTGTCTTAGAGAAC	2040
Db	1981	CCAAAGACGAGGACAGCTCTTCTGTAGGGAGGACCTGGATTTTCAGTGTCTTAGAGAAC	2040
Qy	2041	GAATAGCTCAGAGAAATCTAGGTCAACGTGAAATCTAGGTCAACGCGGGGCAAAATGACT	2100
Db	2041	GAATAGCTCAGAGAAATCTAGGTCAACGTGAAATCTAGGTCAACGCGGGGCAAAATGACT	2100
Qy	2101	GAAGCCTCTATTCCAGGTGAAACGCTCACTGCTCTAGATATATCTGAGGTATTTGGGCTCC	2160
Db	2101	GAAGCCTCTATTCCAGGTGAAACGCTCACTGCTCTAGATATATCTGAGGTATTTGGGCTCC	2160
Qy	2161	CACCGGATAAGATTTCTGTTAGTGAGTCTGCTTTTATTTTGCAGCACATCAGTGTGTGACGA	2220
Db	2161	CACCGGATAAGATTTCTGTTAGTGAGTCTGCTTTTATTTTGCAGCACATCAGTGTGTGACGA	2220
Qy	2221	CCAGAAATCAGAGAAATGTCTAGAGCTGAAAGGACAGTGAAGAGGTACTATTGGC	2280
Db	2221	CCAGAAATCAGAGAAATGTCTAGAGCTGAAAGGACAGTGAAGAGGTACTATTGGC	2280
Qy	2281	AAGCCCAATACTAAGCCATTCAGTAGGAGACGTGGGGATTTCTTCTCTGCTTCCAGT	2340
Db	2281	AAGCCCAATACTAAGCCATTCAGTAGGAGACGTGGGGATTTCTTCTCTGCTTCCAGT	2340
Qy	2341	CTCTTCTACTTTGTAAACATTTTCTTTGACTTGTCTACTGTGTGTCTCAATTTGTAAGTCA	2400
Db	2341	CTCTTCTACTTTGTAAACATTTTCTTTGACTTGTCTACTGTGTGTCTCAATTTGTAAGTCA	2400
Qy	2401	CTGCACCTGCATCTAGCTGGGTCTATAGATCTTTCAATCTGTGTCTCAATTTGTAAGTCA	2460
Db	2401	CTGCACCTGCATCTAGCTGGGTCTATAGATCTTTCAATCTGTGTCTCAATTTGTAAGTCA	2460
Qy	2461	CAATTTCTGAGCTAGCAGAAAGCTTAGCTCAGCAGTCTCATGAGACCTTGTCTCGGAGGA	2520
Db	2461	CAATTTCTGAGCTAGCAGAAAGCTTAGCTCAGCAGTCTCATGAGACCTTGTCTCGGAGGA	2520
Qy	2521	TGGCTTGTGACAGAGTCAATGCTAGAAAGACAGCATCCCTGATTTCCAGCTCTGCACCTTC	2580
Db	2521	TGGCTTGTGACAGAGTCAATGCTAGAAAGACAGCATCCCTGATTTCCAGCTCTGCACCTTC	2580
Qy	2581	CTAGTGGCCAGCTGTAAATTTACTTTAGCTGATTAAGTATTTGGGAAAGCCAAATTTCCAC	2640
Db	2581	CTAGTGGCCAGCTGTAAATTTACTTTAGCTGATTAAGTATTTGGGAAAGCCAAATTTCCAC	2640
Qy	2641	GACCTACATAATCCGAAAGACGATGCAATGAAACTAGAAAGCTGGGACAAACTTACTA	2700
Db	2641	GACCTACATAATCCGAAAGACGATGCAATGAAACTAGAAAGCTGGGACAAACTTACTA	2700
Qy	2701	GAGATGATTTTGTAGCTCATTTAAACTGATGCTCTGAAATGTGATCAAAATCAACCCAGAA	2760
Db	2701	GAGATGATTTTGTAGCTCATTTAAACTGATGCTCTGAAATGTGATCAAAATCAACCCAGAA	2760
Qy	2761	AACAAACAAAGAGCTGGATTTGCAAAATAGGACAGATATTAGAAATCACTGGTATTAAACAG	2820
Db	2761	AACAAACAAAGAGCTGGATTTGCAAAATAGGACAGATATTAGAAATCACTGGTATTAAACAG	2820
Qy	2821	CTGTCACTTAAATTAATAATAGTGTCTATTTAGCTGCTCTATTTAAGATTTAAACACAAGA	2880
Db	2821	CTGTCACTTAAATTAATAATAGTGTCTATTTAGCTGCTCTATTTAAGATTTAAACACAAGA	2880
Qy	2881	GTGATAAATCTCCCAATTTTACTGGGCTGGTTCCTCAATAGAGTAAAAATATCAGTCATAGA	2940

Db 2881 |||||GTGGATAACTTCCCAATTTTACTGGGCCCTGGTTTCAATAGAGTAAATAATATCAGTCAATAG 2940
Qy 2941 TTAATTTATAGTGTCAATGAAAGTATAGTTTGGAAACCTTTCCCTTACTTTTACTTTTACTTTCAAT 3000
Db 2941 TTAATTTATAGTGTCAATGAAAGTATAGTTTGGAAACCTTTCCCTTACTTTTACTTTTCAAT 3000
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Db 3001 TCTTAGTTAATATTTTCTTCAACCTGATCAAGCCACTAGTAAGCACTATCTG 3060
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Db 4561 AAG 4620
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RESULT 4
US-09-178-973B-8
; Sequence 8, Application US/09178973B
; Patent No. 6274710
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: (TIFs)
; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543
; CURRENT APPLICATION NUMBER: US/09/178.973B
; CURRENT FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 17
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; SEQ ID NO 8
; LENGTH: 7445
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-178-973B-8
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Query Match 71.5%; Score 4245.2; DB 3; Length 7445;
Best Local Similarity 88.3%; Pred. No. 0;
Matches 5039; Conservative 0; Mismatches 178; Indels 487; Gaps 20;
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QY 293 TACATGCTATCCGACGAGCATGTTCCCTGATGTTTGGCTTTTGCTCTCTCGCTAAC 352
DB 1971 TACCATGCTATCCGACGAAACATGCTCCCTGATGTTTGGCTTTTGCTCTCTCACTAAC 2030
QY 353 AGGCTCTCTCTCAGTTTATCAACTTTTGACACTTTGCGGATCGGTGATGGCTGCTCTGCA 412
DB 2031 AGGCTCTCTCTCAGTTTATCAACTTTTGACACTTTGCGGATCTCTGATGGCTGCTCTGCA 2090
QY 413 GAAATCTATGAGTTTTCCTTATGGGACTTTTGGCGCGCAGTGCTCTGCTTCTCATTGC 472
DB 2091 GAAATCTATGAGTTTTCCTTATGGGACTTTTGGCGCGCAGTGCTCTGCTTCTCATTGC 2150
QY 473 CTTGTGGGCCAGAGGCAAAATGGCTGCCCATCAACACCGGTGCAAGCTTGAGGTGTC 532
DB 2151 CTTGTGGGCCAGAGGCAAAATGGCTGCCCGTCAACACCGGTGCAAGCTTGAGGTGTC 2210
QY 533 CAATCTCCAGACGCTACATCGTCAACCGCACCTTTTATGCTGGCCAAAGAGGTACAGCT 592
DB 2211 CAATCTCCAGACGCTACATCGTCAACCGCACCTTTTATGCTGGCCAAAGAGGTACAGCT 2270
QY 593 GCATCTCTTCTCTCCATACCGCTTGCCCA - TTTCTCTGAAGCACTTGCAGAACTCTTTAG 651
DB 2271 GCATCTCTTCTCTCCATACCGCTTGCCCACTTTCTCTGAAGCACTTGCAGAACTCTTTAG 2330
QY 652 GGGCGCTTTATCTCCGAGAGTCTCACTACCTATGTTTCTGCTCTTTAGAGACTCTTTA 711
DB 2331 GGGCGCTTTATCTCCGAGAGTCTCACTACCTATGTTTCTGCTCTTTAGAGACTCTTTA 2390
QY 712 AGGACTGGATCTTTTCTATTTCTTATTTCAAGGTCTCAGGACCAATTTCTTATCTTGGCT 771
DB 2391 AGGACTGGGTCTTTTCTATTTCTATTTTCAAGGTCTCAGGACCAATTTCTTATCTTGGCT 2450
QY 772 TCAGGACACATATACATGAAATTTTATCTACAGAGCGGCTTTAGAAAGCCACCCAGACTG 831
DB 2451 TCAGGACACATATACATGAAATTTTATCTACAGAGCGGCAATTTAGAAAGCCACCCAGACTG 2510
QY 832 CAATACCTTTCATCTCTGCTGCTCTCTCTGAACTCATACTCTCTTGGCTACTCTCTGAG 891
DB 2511 CAATACCTTTCATCTCTGCTGCTCTCTCTGAACTCATACTCTCTTGGCTACTCTCTGAG 2570
QY 892 ACCCACTGGGACATACATCTTACTTACAGGCTTTTCTTCCATCTCTCTGACCCAGG 951
DB 2571 ACCCACTGGGACATACATCTTACTTACAGGCTTTTCTTCCATCTCTCTGACCCAGG 2630
QY 952 CACTTAGGGTTTCTCTCTTTTCAGGCCAGCTTGAGATAACAAACACAGAGCTCCGGCTC 1011
DB 2631 CACTTAGGGTTTCTCTCTTTTCAGGCCAGCTTGAGATAACAAACACAGAGCTCCGGCTC 2690
QY 1012 ATCGGGAGAAACTGTTCGAGGAGTCAAGTAAAGTCTCTCACTGTGATGACAGGGCTAG 1071
DB 2691 ATCGGGAGAAACTGTTCGAGGAGTCAAGTAAAGTCTCTCACTGTGATGACAGGGCTAG 2750
QY 1072 CTGCGGGAGCTGGTGACCCCTCTGGGATAGTCTGACGTATGACCCCTGCTCTCTTCTGTC 1131
DB 2751 CTGCGGGAGCTGGTGACCCCTCTGGGATAGTCTGACGTATGACCCCTGCTCTCTTCTGTC 2810
QY 1132 TACCTGAGGCTAAGGATCAGTGTCTGATGAAGCAGGTGCTCAACTTCCACCTGGAA 1191
DB 2811 TACCTGAGGCTAAGGATCAGTGTCTGATGAAGCAGGTGCTCAACTTCCACCTGGAA 2870
QY 1192 GACATCTGCTCCCGAGTCAAGAGTTCCGGCCCTTACATGCAAGAGGTGGTGGCTTTC 1251
DB 2871 GACGTTCTGCTCCCGAGTCAAGAGTTCCAGGCTTACATGCAAGAGGTGGTGGCTTTC 2930
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Qy	1252	CTGACCAAACTCAGCAATCAGCTCAGCTCCTGTGTAAAGTCTGGCTCTATGCT	1311
Db	2931	CTGACCAAACTCAGCAATCAGCTCAGCTCCTGTGTAAAGTCTGACTCTGGCTACTATGCT	2990
Qy	1312	CCTCTCTCTCTCTCTCTATTTCCAGTAAGAACCCGAGGTCTGCCCTCTCTCTCTTCACA	1371
Db	2991	CCTCTCTCTCTCTCTCTATTTCCAGTAAGAACCCGAGGTCTGCCCTCTCTCTCTTCACA	3050
Qy	1372	AGAGTGAGGAGGGCCTCAGCACCAACCACCATCATAGGCCACTTGAATAGGTCACAAAGG	1431
Db	3051	AGAGTGAGGAGGGCCTCAGCACCAACCACCATCATAGGCCACTTGAATAGGTCACAAAGG	3110
Qy	1432	CTTTGGCTTCAAATTTAGTGAATPATCTTTGAGTTTGTATTAGTTAAAGCTTTATTTGTTTATC	1491
Db	3111	CTTTGGCTTCAAATTTAGTGAATPATCTTTGAGTTTGTATTAGTTAAAGCTTTATTTGTTTATC	3170
Qy	1492	CNTGGAAGAAATCAACTCAAATTTCTGTAGATGAGAAAGATGTTGGACGGAAGAAAGG	1551
Db	3171	CATGGAAAGAAATCAACTCAAATTTCTGTAGATGAGAAAGATGTTGGAAACGAAAAAAGG	3230
Qy	1552	CCTAGATAGAGAAACAGATCTGCTGAGTACAGTACTTTATGGGGGGGGGGCAGGGGGCG	1611
Db	3231	CCTAGATAGAGAAACAGATCTGCTGAGTATAGTACTTTAT --- GGGGGGAGCAGGGGGCG	3286
Qy	1612	ATATCCACTGAGTCAAAGTACTTTGTTGGGAGAGAAATCCACTGAGTACAAAGTACTTGT --	1669
Db	3287	ATATCCACTGAGTCAAAGTACTTTGTTGGGAGAGAAATCCACTGAGTACAAAGTACTTGTTG	3346
Qy	1670	-----GGGGGAAGGAATGGCACAGACGCAAAAGT	1697
Db	3347	GCATGGAGATCCA CTGAGTACAAGTACTTTGGGGGGAGGGAATGGCACAGACGCAAAAGT	3406
Qy	1698	TGAAGGAAAGAGAGGAAGATGAGAGGGCTCAAATGTTGGGGGTGTGAAGAGTCACTCTCTT	1757
Db	3407	TGAAGGA --- AGGAAGATGGAGGGCTCATGTTGGGGGTGTGAAGAGTCACTCC - TT	3462
Qy	1758	TTCCATGTGATGGAGAGTTAAGAAAAATCAGTGTGTGAGTTTGAATGTCCTTTCAGACACCCC	1817
Db	3463	TTCCATGTGATGGAGAGTTAAGAAAAACCAAGTGTGTGAGTTTGAATGTCCTTTCAGACACCCC	3522
Qy	1818	AA-----CTATGGCAGACTGTGGGAGACCTGGGACCTTGGGAA	1855
Db	3523	CAACTATGAACATATATCCAGAGAGCGGGCAGACTGTGGGAGACCTGGGAA	3582
Qy	1856	GGCGCGCTTTTCACAGAGAACTTTATGCTCATCTCTGTGTGCTACACTCCACACTTTG	1915
Db	3583	GGCGCGCTTTTCACAGAGAACTTTATGCTCATCTCTGTGTGCTACACTCCACACTTTG	3642
Qy	1916	ATGAGGTTAAGCTCAGGTTTCGGTTTCTACCGTTCTTCTACTCGTGGAACCTTCAGTAGG	1975
Db	3643	ATGAGGTTTCAGCTCAGGTTTCGGTTTCTTCTACCGTTCTTCTACTCGTGGAACCTTCAGTAGG	3702
Qy	1976	ATTTCCCAAAAGCAGAGACAGCTCTTCTGTAAAGGAGGACCTGGATTCAGTGTCTCTAG	2035
Db	3703	ATTTCCCAAAAGCAGAGACAGCTCTTCTGTAAAGGAGGACCTGGATTCAGTGTCTCTAG	3762
Qy	2036	AGAACGAAATAGCTCAGAGATCTAGGTCAACGTTGAATCTAGGTACACGGGGCAAAA	2095
Db	3763	AGAACGAAATAGCTCAGAGATCTAGGTCAACGTTGAATCTAGGTACACGGGGCAAAA	3822
Qy	2096	TGACTGAACGCCTCTATTTCCAGGTGAACGGTTCAGTCCCTCAGATATACCTGAGGTATTTGG	2155
Db	3823	TGACTGAACGCCTCTATTTCCAGGTGAACGGTTCAGTCCCTCAGATATACCTGAGGTATTTGG	3882
Qy	2156	GCTCCCAACCGGATTAAGATTCGTGTTAGTGTGCTGCTTTTATTTTTCAGCACATCATGTGGT	2215
Db	3883	GCTCCCAACCGGATTAAGATTCGTGTTAGTGTGCTGCTTTTATTTTTCAGCACATCATGTGGT	3942
Qy	2216	GACGACGAGAACATCCAGAGAAATGTCAGAAAGCTGAGGAGACAGTGAAGAAAGGTACTTA	2275
Db	3943	GACGACGAGAACATCCAGAGAAATGTCAGAAAGCTGAGGAGACAGTGAAGAAAGGTACTTA	4002

Qy	2276	TTGGCAAGCCACAATACTAAGACCAATTCAGTAGAGACGTGGGGATTTCTTTCTCTGCTTC	2333
Db	4003	TTGGCAAGCCACAATACTAAGACCAATTCAGTAGAGACGTGGGGATTTCTTTCTCTGCTTC	4062
Qy	2336	CCAGTCTCTTCTACTCTTTGTAAACATTTCTTTGACTTGTCTACTGTCTGGTCCAACTACTCA	2395
Db	4063	CCAGTCCCTCTCTACTCTTTGTAAACATTTATTTGACTTGTCTACTGTCTGGTCCAACTACTCG	4122
Qy	2396	CTTAGCTGCACCTGCATCTAGCTGGGTCTATAGATCTTTCAATCTGTCTAAATTTGTA	2455
Db	4123	CTTAGCTGCACCTGTATCTAGCTGGGTCTATAGATCTTTCAATCTGTCTAAATTTGTA	4182
Qy	2456	AGTCAAATTTCTGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCAGCTTGCTCG	2515
Db	4183	AGTCACAAATTTCTGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCAGCTTGCTCG	4242
Qy	2516	GAGGATGGCTTGTGACAGAGTCAATGCTAGAGACAGCATCCCTGATTCGCCAGCTCTGCA	2575
Db	4243	GAGGATGGCTTGTGACAGAGTCAATGCTAGAGACAGCATCCCTGATTCGCCAGCTCTGCA	4302
Qy	2576	CTTGCCCTAGTGGCCACGTGTAA'TTACTTTTAGCCCTGATTAAAGTATTTGGGAAAGCCAAATTC	2635
Db	4303	CTTGCCCTAGTGGCCATGTGTAA'TTACTTTTGGCTTGATTAAAGTATTTGGGAAAGCCAGTTTC	4362
Qy	2636	CCACCGACCTACATAATATCCGAGAGAGATGATGAAATCTAGAAAGCTGGGGCACAACCT	2695
Db	4363	CCACCGACCTACATAATATCTGAAGAACATGCAATGAAATCTAGAAAGCTGGGGCACAACCT	4422
Qy	2696	TACTAGAGATGATTTTGTAGCTCA'TTAAACTGATGCTCTGAAATGTGATCAATCAACCC	2755
Db	4423	TACTAGAGATGATTTTGTAGCTCA'TTAAACGGATGCTCTGAAATGTGGCAAAATCAACCC	4482
Qy	2756	AGAATAACAAAGAGCTGGATTTGCAATATAGGACAAAGTATTTAGAATCACTGGTATTT	2815
Db	4483	AGAATAACAAAGAGCTGGATTTGCAATATAGGACAAAGTATTTAGAATCACTGGTATTT	4542
Qy	2816	AACAGCTGTCATCTTAATTAATAATATAGTGTCTATTTAGCTGCCTATTTAAGANTTAAACA	2875
Db	4543	AATAGCTATCATCTTAATTAATAATATAGGCCCTATATA----TATATTTAAGATTAAACA	4598
Qy	2876	CAAGGTGGATTAACCTCCCAATTTACTGGGCCCTGGTTTCAATAGAGTAAAAATATCAGTC	2935
Db	4599	CAAGGTGGATTAACCTCCCAATTTACTTGGCCCTGGTTTCAAAAGAGTAAAAATATCAGTC	4658
Qy	2936	ATAGATTAATATATAGTGTCTATGAAAGATGATGAGTTGGAAACCCCTTCTCTTACTTTTACCT	2995
Db	4659	ATGGATTAATATATAGTGTCTATGAAAGATGATGAGTTGGAAACCCCTTCTCTTACTTTTACCT	4718
Qy	2996	TCATTTCTTAGTTATTTATTTTTTTTTTCTTCAACCCCTGATCAAGCCACTAGTAGAACACCT	3055
Db	4719	TCATTTCTTAGT-----TTTTTTTTTTCTTCAACCCCTGATCAAGCCACTAGTAGAACACCT	4773
Qy	3056	ATCTGCTGCCAGCTATATATGACTTTACAGCAAAACAATTTGCTGTGTGGCTCTTTTGG	3115
Db	4774	ATCTGCTGTAGCTATATATGACTTTTACAGCAAAACAATTTGCTGTGTGGCTCTTTTGG	4833
Qy	3116	GGAAAGGAAACAGATAGCAGAGGCTCAGGCTAGCAAAGTCTGGACTCAACCTTAAAGCCAG	3175
Db	4834	GGAAAGGAAACAGATAGCAGAGGCTCAGGCTAGCAAAGTCT--GACTTGGCCCTTAAAGCCAG	4892
Qy	3176	AGGCATGGTTGATAGCAGAGAAAGTCAAGCTCTTCAACAAGTGGGTGTGCTTAAGTAATCA	3235
Db	4893	AGGCATGGTTGATAGCAGAGAAAGTCAAGCTCTTTCGAAAGTGGGTGTGCTTAAGTAATCA	4952
Qy	3236	GAACACGAAGGCTCTGGTTGATGGAATTTATCAGTTAAGATATCTACCTTATCTCTTCT	3295
Db	4953	GAACACGAAGGCTCCGGTTGATGGAATTTATCAGTTAAGATATCTACCTTATCTC---CT	5009
Qy	3296	TCATATAGAAGCTAAACCGTCTCTCTCTTTGTGTGTAGGCTGATAAACAACGCTTGTTTTC	3355
Db	5010	TCATATGAACCTAAATCGTCTCTTTTCTTTGTGTGTAGGCTGATAAACAACACTTGTTTTC	5069
Qy	3356	TTTTTGAGTGTTCAATGGCTTTGCAGATTTTTTCAAGTGCTCTCGCAGTCTCTGTAGAGGGTTT	3415

QY 5572 TTGTTTGAAGAGGTTACCTCTCAATTCCTCTAGAGAAAGGCTATGTAACTTCAATTC 5631
Db 6886 TTGTTTGAAGAGGTTACCTCTCAATTCCTCTAGAGAAAGGCTATGTAACTTCAATTC 6945
QY 5632 CATACCAATACCTTATATATGTAAGTTTATTTATATAGTATACATTTTATATATGTC 5691
Db 6946 CATATCCAATATTTATATATGTAAGTTTATTTATATAGTATACATTTTATATATGTC 7005
QY 5692 AGTTTATTAATATGGAATTTATTTATAGAAAATATCTGATGTTGATATTTAGTATAAA 5751
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Db 7125 TGGATATCATAAATCTCTCTGTTGTAATTTTCTCCCTTAAATATCAAAATACCATCA 7184
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QY 5932 TTTG 5935
Db 7245 GTTG 7248

RESULT 5
US-09-419-568F-8
; Sequence 8, Application US/09419568F
; Patent No. 6331613
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: (TIFs) The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/09/419,568F
; CURRENT FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 8
; LENGTH: 7445
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-419-568F-8

Query Match 71.5%; Score 4245.2; DB 3; Length 7445;
Best Local Similarity 88.3%; Pred. No. 0;
Matches 5039; Conservative 0; Mismatches 178; Indels 487; Gaps 20;
QY 293 TACATGCTATCCGACGAGCATGTTCCCTGATGTTTGGCTTTTGGCTTCTCTCGCTAAC 352
Db 1971 TACCATGCTATCCGACGAAATGCTCCCTGATGTTTGGCTTTTGGCTTCTCTCACTAAC 2030
QY 353 AGGCTCTCCCTCAGTTATCACTTTTGACATTTGTCGATCGGTGATGCTGCTCTGCA 412
Db 2031 AGGCTCTCCCTCAGTTATCACTTTTGACATTTGTCGATCTCTGATGCTGCTCTGCA 2090
QY 413 GAAATCTATGAGTTTTCCTTATGGGACTTTTGGCGCCGAGCTGCTGCTCTCAATTGC 472
Db 2091 GAAATCTATGAGTTTTCCTTATGGGACTTTTGGCGCCGAGCTGCTGCTCTCAATTGC 2150
QY 473 CTGTGGGCCCGAGGCAAAATGCGTGCCCATCAACCCGCTGCAAGCTTCAAGTGTC 532

Db 2151 CTGTGGGCCCGAGGAGCAAAATGCGTGTCGCCGTCAACACCCGGTGCAAGCTTGAGGTGTC 2210
QY 533 CAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAAGAGGTACAGCT 592
Db 2211 CAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAAGAGGTACAGCT 2270
QY 593 GCATCTCTTTCTCTCCATACCGCTTTGCCA -TTTCTCTGAAGCACTTTGCAAACTCTTTAG 651
Db 2271 GCATCTCTTTCTCTCCATACCGCTTTGCCAATTTTCTCTGAAGCACTTTGCAAACTCTTTAG 2330
QY 652 GGGCGCTTTATCTCCGAGGTCACCTATGTTTCTCTCTCTTTAGAGACTCTTTA 711
Db 2331 GGGCGCTTTATCTCCGAGGTCACCTATGTTTCTCTCTTTAGAGACTCTTTA 2390
QY 712 AGGACTGGATCTTTTCTATTTCTATTTCAAGGCTCTCAGGACCATTTCTTATCTTGGCCT 771
Db 2391 AGGACTGGGCTTTTCTATTTCTATTTCAAGGCTCTCAGGACCATTTCTTATCTTGGCCT 2450
QY 772 TCAGGACATATATCTGAATTTTATCTAAGAGGCGGTTTGAAGGCCACCCACGACTG 831
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Db 2511 CAATATCTTTCCATCTGTTGCTCTCTCTGAACTCATACTCTTGGCTACTCTCTGAG 2570
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Db 2571 ACCCACTGGGACATATCTCTACTTACAGGCTTTTCTTCCATCTCTTGTCAACCAGG 2630
QY 952 CACTTAGGTTTCTCTCTTTAGGCGGCTTTGCGAGATTAACAACAACAGAGCTCGGCTC 1011
Db 2631 CACTTAGGTTTCTCTCTTTAGGCGGCTTTGCGAGATTAACAACAACAACAGAGCTCGGCTC 2690
QY 1012 ATCGGGAGAACTGTTCCGAGGAGTCACTGTAAGTCTCTCACTGTGATGAGGAGGCTAG 1071
Db 2691 ATCGGGAGAACTGTTCCGAGGAGTCACTGTAAGTCTCTCACTGTGATGAGGAGGCTAG 2750
QY 1072 CTGCGGGAGCTGTGGACCTCTCTGGGATAGTCTGAGGTATGAGCCCTGCTGCTTCTTGTGTC 1131
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QY 1132 TACCTCGAGGCTAAGGATCAGTGCTACCTGATGAAGAGGCTCTCAACTTCACTCGGAA 1191
Db 2811 TACCTCGAGGCTAAGGATCAGTGCTACCTGATGAAGAGGCTCTCAACTTCACTCGGAA 2870
QY 1192 GACATTTCTCTCCCCAGTCAGACAGTTCCGCGCTCTACATGAGGAGGTTGCTCTTTC 1251
Db 2871 GACGTTCTCTCCCCAGTCAGACAGTTCCGCGCTCTACATGAGGAGGTTGCTCTTTC 2930
QY 1252 CTGACCAAACTCAGCAATCAGCTCAGCTCCTGTGTAAGTCTGCTCTGCTAGCTATGCT 1311
Db 2931 CTGACCAAACTCAGCAATCAGCTCAGCTCCTGTGTAAGTCTGCTCTGCTAGCTATGCT 2990
QY 1312 CTTCTCTCTCTCTCTTCTATTTCCAGTAAGAACCCGAGGCTCTGCTCTCTCTCTTCA 1371
Db 2991 CTTCTCTCTCTCTCTTCTATTTCCAGTAAGAACCCGAGGCTCTGCTCTCTCTTCA 3050
QY 1372 AGAGTGAAGGCGCTCAGCACCAACCATCATAGGCCACTTGAATAGGTACACAAGG 1431
Db 3051 AGAGTGAAGGCGCTCAGCACCAACCATCATAGGCCACTTGAATAGGTACACAAGG 3110
QY 1432 CTTTGGCTTCAATTTAGTAAATCTTTTGGTTTCTGTTAGTTAAGCTTTTATTTTATC 1491
Db 3111 CTTTGGCTTCAATTTAGTAAATCTTTTGGTTTCTGTTAGTTAAGCTTTTATTTTATC 3170
QY 1492 CATGGAAGAAATCAACTCAAAATTTCTAGGATGAGAAAGATTTGGGAACGAAAAAGG 1551
Db 3171 CATGGAAGAAATCAACTCAAAATTTCTAGGATGAGAAAGATTTGGGAACGAAAAAGG 3230
QY 1552 CTTAGATAGAGAAACAGATCTGCTGATGATACAGTACTTATGGGGGGGGGGGGGGGG 1611
Db 3231 CTTAGATAGAGAAACAGATCTGCTGATGATACAGTACTTATGGGGGGGGGGGGGGGG 3286

QY	1612	ATATCCACTGAGTCCAAAGTACTTGTTCGGGAGAGAAATCCCACTGAGTACAAGTACTTGT--	1669
Db	3287	ATATCCACTGAGTACAAGTACTTGTGGGAGAGAAATCCCACTGAGTACAAGTACTTGTG	3346
QY	1670	-----GGGGGAAGAAATGGCACAGAGCAAAAGT	1697
Db	3347	GCATGGAGATCCACTGAGTACAAGTACTTGTGGGGGAGGGAATGGCACAGAGCAAAAGT	3406
QY	1698	TGAAGGGAAGAGAAAGATGGAGAGGCTCAATGTTGGGGGTGTGAAAGTCACTCCTTT	1757
Db	3407	TGAAGGGA---AGGAAGATGGAGAGGCTCATGTTTGGGGGTGTGAAAGGTCACTCC-JT	3462
QY	1758	TTCCATCTGTATGGAGAGTTAAGAAATCAAGTGTGAGTTTGATGTCTTCAGACACCCC	1817
Db	3463	TTCCATGTATGGAGAGTTAAGAAATCAAGTGTGAGTTTGATGTCTTCAGACACCCC	3522
QY	1818	AA-----CTATGGCAGACTGTGGAGACCTGGCATTTAGGGAA	1855
Db	3523	CAACTATGAAACATATCCACGAGGAGCGGCAGACTGTGGAGACCTGGCATTTAGGGAA	3582
QY	1856	GGCGCGGTTTTCACAGAGAACTTTATGCTCATCTCTGTGTGTACACTCCACCTTTG	1915
Db	3583	GGCGCGGTTTTCACAGAGAACTTTATGCTCATCTCTGTGTGTACACTCCACCTTTG	3642
QY	1916	ATGAGGTTAAGCTCAGGTTTGTCTTACCGTTCTGTCTACTGGTGGAACTTCAGTAGG	1975
Db	3643	ATGAGGTTAAGCTCAGGTTTGTCTTACCGTTCTGTCTACTGGTGGAACTTCAGTAGG	3702
QY	1976	ATTCCCAAAGACGAGACAGCTCTTCTGTAAGGGAGGACCTGGATTTCAAGTGTCTCTAG	2035
Db	3703	ATTCCCAAAGACGAGACAGCTCTTCTGTAAGGGAGGACCTGGATTTCAAGTGTCTCTAG	3762
QY	2036	AGAACGAAATAGCTCAGAGATCTAGGTCAACGTGAAATCTAGTGTCAAGCGGCAAAAA	2095
Db	3763	AGAACGAAATAGCTCAGAGATCTAGGTCAACGTGAAATCTAGTGTCAAGCGGCAAAAA	3822
QY	2096	TGACTGACCGCTCTATTCACAGGTCAACGGTCAAGTGCCTCAGATATCTAGGATTTGG	2155
Db	3823	TGACTGACCGCTCTATTCACAGGTCAACGGTCAAGTGCCTCAGATATCTAGGATTTGG	3882
QY	2156	GCTCCACCGGATAGATTTCTGTAGTGTCTCTCTTTATTTTGCAGCATCAGTGGT	2215
Db	3883	GCTCCACCGGATAGATTTCTGTAGTGTCTCTCTTTATTTTGCAGCATCAGCGGT	3942
QY	2216	GACGACAGAACTCCAGAGAAATGTCAAGAGGCTGAAGGAGACAGTGAAAGGTACTA	2275
Db	3943	GACGACAGAACTCCAGAGAAATGTCAAGAGGCTGAAGGAGACAGTGAAAGGTACTA	4002
QY	2276	TTGGCAAGCCACAATCTAAGCCATTCAGTAGGAGAGCGTGGGATTTCTTCTCTGCTTC	2335
Db	4003	TTGGCAAGCCACAATCTAAGCCATTCAGTAGGAGAGCGTGGGATTTCTTCTCTGCTTC	4062
QY	2336	CCAGTCTCTTCTACTTTGTAAATTTCTTTGACTTGTCTACTGTCTGGTCCATTACTCA	2395
Db	4063	CCAGTCTCTTCTACTTTGTAAATTTTATTTGACTTGTCTACTGTCTGGTCCATTACTCG	4122
QY	2396	CTTAGCTGCACCTGCATCTAGCTGGTCTATAGATCTTTTCAATCTGTCTCAAAATTTGTA	2455
Db	4123	CTTAGCTGCACCTGCATCTAGCTGGTCTATAGATCTTTTCAATCTGTCTCAAAATTTGTA	4182
QY	2456	AGTCACAAATCTGGAGCTAGCAGAAAGCTTAGCTCAGCGACTTCATGAGCACTTGCTCG	2515
Db	4183	AGTCACAAATCTGGAGCTAGCAGAAAGCTTAGCTCAGCGACTTCATGAGCACTTGCTCG	4242
QY	2516	GAGGATGGCTTGTGACAGAGTCAATGTGAGAGACAGCATCCCTGATTTCCAGGCTCTGCA	2575
Db	4243	GAGGATGGCTTGTGACAGAGTCAATGTGAGAGACAGCATCCCTGATTTCCAGGCTCTGCA	4302
QY	2576	CTTGCTAGTGGCCACGTGTAAATTAATTAACCTGATTAAGTAAATTTGGGAAAGCCAAATTC	2635
Db	4303	CTTGCTAGTGGCCACGTGTAAATTAATTAACCTGATTAAGTAAATTTGGGAAAGCCAAATTC	4362

QY	2636	CCACCGACCTACATAATCCGAGAAGCATGATTTGAAAACCTAGAAAGCTGGGCACAAACT	2695
Db	4363	CCACCGACCTACATAATCTCGAAGAACCATGCAITTTGAAAACCTAGAAAGCTGGGCACAACT	4422
QY	2696	TACTAGAGATGATTTTGGAGCTCATTTAACTGATGCTCTGAAATGTGATCAATCAACCC	2755
Db	4423	TACTAGAGATGATTTTGGAGCTCATTTAAACGGATGCTCTGAAATGTGCGAANAATCAACCC	4482
QY	2756	AGAAATACACAAAGAGCTGGATTTGCAATAGGCAAGTATTTAGAACTACCTGGTATT	2815
Db	4483	AGAAATACACAAAGAGCTGGATTTGCAATAGGCAAGTATTTAGAACTACCTGGTATT	4542
QY	2816	AACAGCTGTCTCATCTTAATTAATAATATAGTGTCTATTTTAGCTGCCTATTTAAGATTAACA	2875
Db	4543	AATAGCTATCATCTTAATTAATAATATAGGSCCTATATA---TATAATTAAGATTAACA	4598
QY	2876	CAAGAGTGGATAAATCTTCCCAATTTAATCTGGGCTCTGGTTTCAATAGAGTAAAAATATCAGTC	2935
Db	4599	CAAGAGTGGATAAATCTTCCCAATTTAATCTGGGCTCTGGTTTCAAAAGAGTAAAAATATCAGTC	4658
QY	2936	ATAGATTAATATATAGTGTCAATGAAAGTATGAGTTTGGAAACCCCTTCTCTTACTTTTACCT	2995
Db	4659	ATGGAATTAATATAGTGTCAATGAAAGTATGAGATGGAACCCCTTCTCTTACTTTTACCT	4718
QY	2996	TCATTTCTTAGTTATTTATTTTCTTTCACACCTCTGATCAAGCCACTAGTAAGCACCT	3055
Db	4719	TCATTTCTTAGT-----TTTTTTTTTCTTTCACACCTCTGATCAAGCCACTAGTAAGCACCT	4773
QY	3056	ATCTGCTGCGAGCTATTTATATGACTTTTACAGCAAAACAATTTGCTGTGTGGCCTCTTTGG	3115
Db	4774	ATCTGCTGCGAGCTATTTATATGACTTTTACAGCAAAACAATTTGCTGTGTGGCCTCTTTGG	4833
QY	3116	GGAAAGGAAACAGGATAGCAGGAGCTCAGGCTAGCAAGTCTGAGCTCAACCTAAAGCCAG	3175
Db	4834	GGAAAGGAAACAGGATAGCAGGAGCTCAGGCTAGCAAGTCT-GACTTGCCTAAAGCCAG	4892
QY	3176	AGGCATCGTTGATAGCAGAGAAAGTGAAGGCTCTTTCACAAGTGGGTGTCTTAACTAATCA	3235
Db	4893	AGGCATCGTTGATAGCAGAGAAAGTGAAGGCTCTTTCACAAGTGGGTGTCTTAACTAATCA	4952
QY	3236	GAAACAGGAAGGCTCTCGTTGATGGAATATCAGTAAGATATCTACCTTTATCTCTCTCT	3295
Db	4953	GAAACAGGAAGGCTCCGGTTGATGGAATATCAGTAAGATATCTACCTTTATCTCTCTCT	5009
QY	3296	TCATAGAACTAAACCGTCTCTCTCTTGTGTGTAGGCTGATAAAACACGCTTGTCTTC	3355
Db	5010	TCATAGAACTAAACCGTCTCTCTCTTGTGTGTAGGCTGATAAAACACACTTGTCTTC	5069
QY	3356	TTTTGAGTGTTCATGGCTTTGCGAGATTTTCAGTGTCTCTGCCAGTTCTTGTTPAGAGGTTT	3415
Db	5070	TTTTGAGTGTTCATGGCTTTGCGAGATTTTGTAGTCTCTGCCAGTTCTTGTTPAGAGGTTT	5129
QY	3416	GTTACCTTGCACACTGGGCTTGGATGTGTAGCATGCCAAAGGCACACACTTCTGATGCT	3475
Db	5130	GTTACCTTGCACACTGGGCTTGGATGTGTAGCATGCCAAAGGCACACACTTCTGATGCT	5189
QY	3476	GTGTAAAAGGTTATTTATTTACTTTTCTTGTGGAAGAGTGAAGTGTGTGAGAAAG	3535
Db	5190	GTGTAAAAGGTTATTTATTTACTTTTCTTGTGGAAGAGTGAAGTGTGTGAGAAAG	5249
QY	3536	AACTCACAAGGATGTATTCTCTAGGAAAC-TTTTTTTTTCCCTTTAAAGCCCTATAA	3594
Db	5250	AACTCACAAGGATGTATTCTCTAGGAAACCTTTTCTTCCCTTTAAATGCCTATAA	5309
QY	3595	TCCACTTTCAGTCAACTTTTGTATACATGCTGTCAATGAAAGAGTGTGTAGGCC	3654
Db	5310	TCCACTTTCAGTCAACTTTTGTATACATGCTGTCAATGAAAGAGTGTGTAGGCC	5369
QY	3655	CGCTCTCGTGGCTCTGGGAAAGCACAATAGGGAAGAAATGTTATCCCGAGGAATCTG	3714
Db	5370	CGCTCTCATGGCTCTGGGAAAGCACAATAGGGAAGAAATGTTATGCTGAGAAATCTG	5429
QY	3715	ACTGGCAGGGAACCTGGGTCAGAGCTCCCCAAAGACCACTACAGGTGTTAAGTAGGAACA	3774

Qy	5932	TTTG	5935	
Db	7245	GTTC	7248	
RESULT 6				
US-09-354-243B-8				
; Sequence 8, Application US/09354243B				
; Patent No. 6359117				
; GENERAL INFORMATION:				
; APPLICANT: Dumoutier, Laure				
; APPLICANT: Loubed, Jamila				
; APPLICANT: Renauld, Jean-Christophe				
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Pa				
; TITLE OF INVENTION: (TIFs)				
; FILE REFERENCE: LUD 5543.1				
; CURRENT APPLICATION NUMBER: US/09/354,243B				
; CURRENT FILING DATE: 1999-07-16				
; PRIOR APPLICATION NUMBER: US09/178,973				
; PRIOR FILING DATE: 1998-10-26				
; NUMBER OF SEQ ID NOS: 29				
; SEQ ID NO 8				
; LENGTH: 7445				
; TYPE: DNA				
; ORGANISM: Mus musculus				
; FEATURE:				
US-09-354-243B-8				
Query Match 71.5%; Score 4245.2; DB 3; Length 7445;				
Best Local Similarity 88.3%; Pred. No. 0;				
Matches 5039; Conservative 0; Mismatches 178; Indels 487; Gaps 20;				
Qy	293	TACCATGCTATCCGACGACGATGTTCCCTCGATGTTTTGCTTTTGGCTTTCTCTCGCTAAC	352	
Db	1971	TACCATGCTATCCGACGACGATGTTCCCTCGATGTTTTGCTTTTGGCTTTCTCTCACTAAC	2030	
Qy	353	AGGCTCTCTCTAGTTATCAACTTTTGACACTTTGTGGGATCGGTGATGGCTTCTCTGCA	412	
Db	2031	AGGCTCTCTCTACTTATCAACTTTTGACACTTTGTGGGATCTCTGATGGCTTCTCTGCA	2090	
Qy	413	GAATCTATGATGTTTTTCCCTTATGGGACTTTGGCCGACGCTGCTTCTCTCATTTGC	472	
Db	2091	GAATCTATGATGTTTTTCCCTTATGGGACTTTGGCCGACGCTGCTTCTCTCATTTGC	2150	
Qy	473	CCTGTGGGCCCGAGGAGCAATGCGCTGCCCATCAACACCGCGTGCAAGCTTGAGGTGTC	532	
Db	2151	CCTGTGGGCCCGAGGAGCAATGCGCTGCCCATCAACACCGCGTGCAAGCTTGAGGTGTC	2210	
Qy	533	CAACTTCCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAAAGGAGGTACAGCT	592	
Db	2211	CAACTTCCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAAAGGAGGTACAGCT	2270	
Qy	593	GCATCTCTTCTCTCCATACCGCTTGCCA-TTTCTCTGAAGCACTTGCAAACTCTTTAG	651	
Db	2271	GCATCTCTTCTCTCCATACCGCTTGCCA-TTTCTCTGAAGCACTTGCAAACTCTTTAG	2330	
Qy	652	GGGGCTTTATCTCGCAGGCTCTCACTACCTATGTTTTCTGTCTCTTTAGAGACTCTTTA	711	
Db	2331	GGGGCTTTATCTCGCAGGCTCTCACTACCTATGTTTTCTGTCTCTTTAGAGACTCTTTA	2390	
Qy	712	AGGACTGATCTTTTCTATTTCTATTTCAAGGCTCTAGGACCATTTTCTATCTTGGCT	771	
Db	2391	AGGACTGATCTTTTCTATTTCTATTTCAAGGCTCTAGGACCATTTTCTATCTTGGCT	2450	
Qy	772	TCAGACACATATCTGAATTTTATCTACAGGCGGCTTTTAGAAAGCCACCCAGACTG	831	
Db	2451	TCAGACACATATCTGAATTTTATCTACAGGCGGCTTTTAGAAAGCCACCCAGACTG	2510	
Qy	832	CAATACTTTCCATCTCTGTGTGCTCTCTTCTGAATCATCTCTCTTGGCTACTCTGAG	891	
Db	2511	CAATACTTTCCATCTCTGTGTGCTCTCTTCTGAATCATCTCTCTTGGCTACTCTGAG	2570	

Qy	892	ACCCACTGCGGACATACATCTCTACTTTACAGGCTTTTCTTCCATCTCTTGTCAACCAGG	951	
Db	2571	ACCCACTGCGGACATACATCTCTACTTTACAGGCTTTTCTTCCATCTCTTGTCAACCAGG	2630	
Qy	952	CACCTAGGGTTTTCTCTTTTCAGGCGCAGCTTGCAGATAACAACAAGAGTCCGGCTC	1011	
Db	2631	CACCTAGGGTTTTCTCTTTTCAGGCGCAGCTTGCAGATAACAACAAGAGTCCGGCTC	2690	
Qy	1012	ATCGGGAGAAACTGTTTCCAGGAGTCAAGTAAAGTCTCTCACTGTGTAGTACAGGGCTAG	1071	
Db	2691	ATCGGGAGAAACTGTTTCCAGGAGTCAAGTAAAGTCTCTCACTGTGTAGTACAGGGCTAG	2750	
Qy	1072	CTCGGGAGCTGTTGGACCTCTTGGGATAGTCTGACGTATGACCCCTGCTCTTCTTGTGTC	1131	
Db	2751	CTCGGGAGCTGTTGGACCTCTTGGGATAGTCTGACGTATGACCCCTGCTCTTCTTGTGTC	2810	
Qy	1132	TACCTGACGGCTAAGGATCAGTGTCTACTCTGATGAAGCAGGTGCTCAAATTCACCTCGAA	1191	
Db	2811	TACCTGACGGCTAAGGATCAGTGTCTACTCTGATGAAGCAGGTGCTCAAATTCACCTCGAA	2870	
Qy	1192	GACATTTCTGCTCCCGCAGTCAAGGTTCCGGCCCTACATGACGAGGAGTGGTCCCTTTC	1251	
Db	2871	GACGTTTCTGCTCCCGCAGTCAAGGTTCCAGCCCTACATGACGAGGAGTGGTACCTTTC	2930	
Qy	1252	CTGACCAAACTCAGCAATCAGCTCAGCTCTGTGTAAAGTCTGGCTCTGGCTTACCTATGCT	1311	
Db	2931	CTGACCAAACTCAGCAATCAGCTCAGCTCTGTGTAAAGTCTGGCTCTGGCTTACCTATGCT	2990	
Qy	1312	CCTCTCTCTTCTCTTATTTCCAGTAAGAACCGAGGTCTGCTCTCTCTTCTTCAACA	1371	
Db	2991	CCTCTCTCTTCTCTTATTTCCAGTAAGAACCGAGGTCTGCTCTCTCTTCTTCAACA	3050	
Qy	1372	AGAGTAGAGGGGCTCAGCACCAACCATCATAGGCCACTTGAATAGTGTCAACAAGG	1431	
Db	3051	AGAGTAGAGGGGCTCAGCACCAACCATCATAGGCCACTTGAATAGTGTCAACAAGG	3110	
Qy	1432	CTTTGGCTTCAATTTGAGTAATCTTTCAGTTTGTATTTAGTTTAACTTATTTTGTATTC	1491	
Db	3111	CTTTGGCTTCAATTTGAGTAATCTTTCAGTTTGTATTTAGTTTAACTTATTTTGTATTC	3170	
Qy	1492	CATGGAAGAAATCAACTCAAAATTTCTGATGATGAGAAAGATTTGGGAAACGAAAAAGG	1551	
Db	3171	CATGGAAGAAATCAACTCAAAATTTCTGATGATGAGAAAGATTTGGGAAACGAAAAAGG	3230	
Qy	1552	CCTAGATAGAGAAACAGATCTGCTGATGATGATGATTTATGGGGGGGGGGGCGGGGCG	1611	
Db	3231	CCTAGATAGAGAAACAGATCTGCTGATGATGATGATTTATGGGGGGGGGGGCGGGGCG	3286	
Qy	1612	ATATCCACTGAGTCCAAAGTACTTCTTGGGAGAGAAATCCCACTGAGTACAAAGTACTTGT	-- 1669	
Db	3287	ATATCCACTGAGTCCAAAGTACTTCTTGGGAGAGAAATCCCACTGAGTACAAAGTACTTGT	3346	
Qy	1670	-----GGGGAAGGAATGGCACAGACAAAGT	1697	
Db	3347	GCATGGAGATCCACTGAGTACAAAGTACTTGTGGGGGGGGGAAATGGCACAGACAAAGT	3406	
Qy	1698	TGAAGGAAGAGAGAAAGATGAGAGGGCTCAATGTTGGGGGTGTGAAAGTCACTCTT	1757	
Db	3407	TGAAGGGA---AGGAAGATGAGAGGGCTCATGTTGGGGGTGTGAAAGTCACTCTT	3462	
Qy	1758	TTCCATGTGATGAGAGTTAAGAAATCACTGTGTGATTTGATGTTCTTCTCAGACACCC	1817	
Db	3463	TTCCATGTGATGAGAGTTAAGAAATCACTGTGTGATTTGATGTTCTTCTCAGACACCC	3522	
Qy	1818	AA-----CTATGGCAGACTGTGGGAGACCTGGCAATTTAGGAA	1855	
Db	3523	CAACTATGAACATATCCACGAGGAGGGGAGACTGTGGGAGACCTGGCAATTTAGGAA	3582	
Qy	1856	GGCGGGCTTTTACAGAGAACTTTTATGCTCATCTTGTGTGTACACTCCACCTTTG	1915	
Db	3583	GGCGGGCTTTTACAGAGAACTTTTATGCTCATCTTGTGTGTACACTCCACCTTTG	3642	

Qy	1916	ATGAGGTTAAGCTCAGGTTGCTTTCTTACCGTTCTTGCTACTGCTGGAACCTTCAGTAGG	1975
Db	3643	ATGAGGTTTCAAGCTCAGGTTTCTGTTTCTACCGTTCTTGCTACTGCTGGAACCTTCAGTAGG	3702
Qy	1976	ATTCCCAAGAGACAGAGACAGCTCTCTCTGTAAGGAGGAGGACCTGGAATTCAGTGTCTCAG	2035
Db	3703	ATTCCCAAGAGACAGAGACAGCTCTCTCTGTAAGGAGGAGGACCTGGAATTCAGTGTCTCAG	3762
Qy	2036	AGAACGAAATAGCTCAGAGAACTTAGGTCAACGCTGAAATCTTAGGTCAAGCGGCAAAAA	2095
Db	3763	AGAACGAAATAGCTCAGAGAACTTAGGTCAACGCTGAAATCTTAGGTCAAGCGGCAAAAA	3822
Qy	2096	TGACTGAACCGCTCTATTCCAGGTGAACGGTCAAGTGCCTCAGATATACCTAGAGGTATGG	2155
Db	3823	TGACTGAACCGCTCTATTCCAGGTGAACGGTCAAGTGCCTCAGATATACCTAGAGGTATGG	3882
Qy	2156	GCTCCCAACCGATTAAGATCTGTTAGTAGTCTGCTTTTATTTTTCAGACATCAGTGGT	2215
Db	3883	GCTCCCAACCGATTAAGATCTGTTAGTAGTCTGCTTTTATTTTTCAGACATCAGGCGT	3942
Qy	2216	GACGACAGAACATCCAGAGAAATGTTCAGAGGCTGAAGGAGACAGTGAAAAAGGTACTA	2275
Db	3943	GACGACAGAACATCCAGAGAAATGTTCAGAGGCTGAAGGAGACAGTGAAAAAGGTACTA	4002
Qy	2276	TTGGCAAGCCACAATACTAAGCCATTCAGTAGGAGACGTGGGGATTTCTTCTCTGCTTC	2335
Db	4003	TTGGCAAGCCACAATACTAAGCCATTCAGTAGGAGACGTGGGGATTTCTTCTCTGCTTC	4062
Qy	2336	CCAGTCTCTCTACTTTTGAACATTTCTTTGACTGCTCTACTGCTGCTGCTCCATCTCA	2395
Db	4063	CCAGTCTCTCTACTTTTGAACATTTTATTTGACTGCTCTACTGCTGCTGCTCCATCTCG	4122
Qy	2396	CTTAGCTGCACTGATAGCTGGGTCTATAGATCTTTCAATCTGTGCTCTAAATTTGTA	2455
Db	4123	CTTAGCTGCACTGATAGCTGGGTCTATAGATCTTTCAATCTGTGCTCTAAATTTGTA	4182
Qy	2456	AGTCACAATTCGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGACCTTGCTCG	2515
Db	4183	AGTCACAATTCGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGACCTTGCTCG	4242
Qy	2516	GAGATGGCTTTGACAGAGTCAATGCTAGAGACAGCATCCCTGATTTCCAGCTCTGCA	2575
Db	4243	GAGATGGCTTTGACAGAGTCAATGCTAGAGACAGCATCCCTGATTTCCAGCTCTGCA	4302
Qy	2576	CTTGCTCTAGTGGCCACCGTAAATTTACTTTAGTCCCTGATTAAGTATTTGGGAAAGCCAACT	2635
Db	4303	CTTGCTCTAGTGGCCACCGTAAATTTACTTTGCTTGAATTAAGTATTTGGGAAAGCCAGTTC	4362
Qy	2636	CCACCGACCTACATAATCCGAGAGAGCATGCAATTTGAAAACTAGAAAGCTGGGCACAAACT	2695
Db	4363	CCACCGACCTACATAATCTGAAGAACCAATGCAATTTGAAAACTAGAAAGCTGGGCACAAACT	4422
Qy	2696	TACTAGAGATGATTTTGAAGTCAATTAACCTAGTCTGAAATGCTGATCAATCAACCC	2755
Db	4423	TACTAGAGATGATTTTGAAGTCAATTAACCGAGTCTGAAATGCTGGCAAAATCAACCC	4482
Qy	2756	AGAATAACAACAAAGAGCTGGATTTGCAAAATAGACAAGTATTTAGAATCACTGGTATT	2815
Db	4483	AGAATAACAACAAAGAGCTGGATTTGCAAAATAGACAAGTATTTAGAATCACTGGTATT	4542
Qy	2816	AACAGCTGTCTATTAATTAATAATATAGTGTCTATTTAGTCTGCTATTTAAGATTAACA	2875
Db	4543	AATAGCTATCATCTTAATTAATAATATAGGCTTATAATAATAATAATAATAATAACA	4598
Qy	2876	CAAGAGTGGATTAATCTCCAAATTTACTGGGCTGGTTTCAATAGAGTAAAAATATCAGTC	2935
Db	4599	CAAGAGTGGATTAATCTCCAAATTTACTGGGCTGGTTTCAAAAGAGTAAAAATATCAGTC	4658
Qy	2936	ATAGATTAATTTATAGTGTCAATGAAGTATGAGTTGGAAACCCCTTCTCTTCTTTTACCT	2995
Db	4659	ATAGATTAATTTATAGTGTCAATGAAGTATGAGATGGAAACCCCTTCTCTTCTTTTACCT	4718
Qy	2996	TCATTTCTTAGTTATTATTTTTTTTCTTCAACCCCTGATCAAGCCACTAGTAAGCACCT	3055

Db	4719	TCATTTCTTAGT-----TTTTTTTTTCTTCAACCCCTGATCAAGCCACTAGTAAGCACCT	4773
Qy	3056	ATCTGCTGCCAGCTATTATATGACTTTTACAGCAAAACAATTTGCTGTGGCCCTCTTTGG	3115
Db	4774	ATCTGCTGCCAGCTATTATATGACTTTTACAGCAAAACAATTTGCTGTGGCCCTCTTTGG	4833
Qy	3116	GGAAAGGAAACAGATAGCAGAGGCTCAGGCTAGCAAGTCTGGAATCAACTAAAGCCAG	3175
Db	4834	GGAAAGGAAACAGATAGCAGAGGCTCAGGCTAGCAAGTCT-GACTTGGCCCTAAAGCCAG	4892
Qy	3176	AGCATGGTTGATAGCAGAGAAAGTGAAGCTCTTCAAAAGTGGGTGGCTTTAACTAATCA	3235
Db	4893	AGCATGGTTGATAGCAGAGAAAGTGAAGCTCTTTCGCAAGTGGGTGGCTTTAACTAATCA	4952
Qy	3236	GAAACAGAGAAAGCTCTGGTTGATGGAAATTAATCAGTAAGATATCTACCCCTTATCTCT	3295
Db	4953	GAAACAGAGAAAGCTCTGGTTGATGGAAATTAATCAGTAAGATATCTACCCCTTATCTCT	5009
Qy	3296	TCATAGAAAGCTAAACCGTCTCTCTTTGTGTGTAAGGCTGATAAACACGCTTTGTTTC	3355
Db	5010	TCATAGAAAGCTAAACCGTCTCTCTTTTCTTTGTGTGTAAGGCTGATAAACACACTTTGTTTC	5069
Qy	3356	TTTTGAGTGTTCATGGCTTTGCAAGATTTTCAGTGTCTCTGCCAGTTCCTTTAGAGGGTTT	3415
Db	5070	TTTTGAGTGTTCATGGCTTTGTAAGATTTTGTAGTGTCTCTGCCAGTTCCTTTAGAGGGTTT	5129
Qy	3416	GTTTACCTTTGACACCTGGGCTTTGATGTTTAGCATGCCAAAGGACACACTTCTGAATGCT	3475
Db	5130	GTTTACCTTTGACACCTGGGCTTTGATGTTTAGCATGCCAAAGGACACACTTCTGAATGCT	5189
Qy	3476	GTGTAAAAGGTTATTTCAATTTTACCTTTGTCTTTGGAAAGGTGAAGTGTGTGAGAAAG	3535
Db	5190	GTGTAAAAGGTTATTTCAATTTTACCTTTGTCTTTGGAAAGGTGAAGTGTGTGAGAAAG	5249
Qy	3536	AACCTCAGAGAGATGATTTCTCTGTAGGAAAC-TTTTTTTTTCCCTTTAAAGCCTATAA	3594
Db	5250	AACCTCAGAGAGATGATTTCTCTGTAGGAAACCTTTTTCCTTTCCCTTTAAAGCCTATAA	5309
Qy	3595	TCCACTTTTCACTCAACTTTTACCTTTTATACCATGCTGTACATGAAGAGTGTTTAGGCC	3654
Db	5310	TCCACTTTTCACTCAACTTTTACCTTTTATACCATGCTGTACATGAAGAGTGTTTAGGCC	5369
Qy	3655	CGCTCTGCTGGCTCTGCGGAAAGCACCATAAGGGGAAAGAAATGTTATSCCGAGAAATCTG	3714
Db	5370	CGCTCTCTAGCTCTGCGGAAAGCACCATAAGGGGAAAGAAATGTTATGCTGAGAAATCTG	5429
Qy	3715	ACTGGCAGGGGAAACTGGGTCAGAGCTCCCAAGACCACTACAGGCTTTAGTAGGAACA	3774
Db	5430	ACCGCAGGGGAAACTGGTTCAGAGCTCCCGGAAAGACCACTACAGGCTTTAGTAGGAACA	5489
Qy	3775	GTCCGAGGTTGGTTTATTAATAGAAATGGAACAGAGGGGAGGAGATAAGCTACAAAGTT	3834
Db	5490	GTCCGAGGTTGGGCTCATGTAATAGAAATGGAACAGAGGGGAGGAGATAAGCTACAAAGTT	5549
Qy	3835	TCATAGGCTCCTAAGTCTTTAAGATACAAATAGCTTTGGGCTTCATTAACAAAGGAAAG	3894
Db	5550	TCATAGGCTCCGAGTCTTTAAGATACAAATAGCTTTGGGCTTCATTAACAAAGGAAAG	5609
Qy	3895	TCGGAAGGACGACGATTTGAGAGGAGATGGAAGGGAAGGAAAAAC--AATGTAGAGGA	3952
Db	5610	TCGGAAGGACGACGAAAG--TGAGAGGGAATGGAAGGGAAGGAAAAACAGATGTAGAGGA	5666
Qy	3953	TTTTGAAAGCTCAAAATCTCCACGAGAGGATTTTCTTCGAGGAATCTAGAACAAAGGTT	4012
Db	5667	CTTGAAACAGCTCAAAATCTCTTACAGAGGATTTTCTTCGAGGATTTCTAGAACAAAGGTT	5722
Qy	4013	GGTGGATTTAGGTCGACAGAGGACTCTCTTTGGCATTTGAATCTGGGTTTTTGTCTC	4072
Db	5723	AGTGGATTTAGT--GATTTGACAGGGGACTTCTTTGGCATTTGAATCTGGGTTTTTGTCTC	5781
Qy	4073	TCATTTGAGGTTGAGAGCGTCAACCTTTTTTACCTGGATAGGAGGAGGAAAGGAGGTT	4132

Db 5782 TCCATTGAGGTGAAAGCGTCACCC-TTTTTCCTCGAATGGAGGAGAAAGAGGGGT 5840
Qy 4133 GTTTTGACTCTACTCGAGTTTACTAGTTTACGCAATGGAACAGACACTCGGGACCTC 4192
Db 5841 GTTATGACTCTACTCGAGTTTACTAGTTTACGCAATGGAACAGACACTCGGGACCTC 5900
Qy 4193 CTCTTGACAAGAAAAAAGAAAAAGAAACCTGTTGTTTCTCTGTTGTTGTTGTTGTTG 4252
Db 5901 CTCTTGAC-----AAAAAATGGAACCTGTTGTTGTTGTTGTTGTTGTTGTTG 5950
Qy 4253 TTAAGAAAGCACAGCGAGCTGGGCATGGTGCCCATGCTTTAATCCAGCATTTGGGAG 4312
Db 5951 TTAAGAAAGCACA----- 5963
Qy 4313 GCAGAGGAGGTGACTTTCTAAATTCAGGCCACCTGGTCTACAAAGTGAGTTCCAGGA 4372
Db 5964 ----- 5963
Qy 4373 CAGCCAGGCTATACAGAGAAACCTGTCTCGGGAAAAAAGAAAGAAAGAAAG 4432
Db 5964 ----- 5963
Qy 4433 AAAAGAGAGAGAGGAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 4492
Db 5964 ----- 5963
Qy 4493 GAA 4552
Db 5964 ----- 5963
Qy 4553 GAGAAGAAAGAA 4612
Db 5964 ----- 5963
Qy 4613 AAGAGAAAGAAAAAGAAAAAGCAAGCAAGCACTGGCAAGACATGCCACATCGGA 4672
Db 5964 -----GGCAAGCCCGACCATCGGT 5985
Qy 4673 CGTATGGGTCCTTTGAGACAAGGCTTTTGAATTTGAGGGCTCATCAATAGTTGATCATGG 4732
Db 5986 TGAATGTGGTCTTTGAGTCAAGGCTTTTGAAGTTGAGCACTCATCAATAGTTGATCATGG 6045
Qy 4733 TCAGGTGAGGGCTACCTGTGAGCCGAGCCCTGCTGCTTAGCACCTTAAACATCTCCAGG 4792
Db 6046 TCAGGTGAGGGCTACCTGTGAGCCGAGCCCTGCTGCTTAGCACCTTAAACATCTCCAGG 6105
Qy 4793 TCTCAGTATCACTTCTGCTGCTTTAGCACAGTTAGGAGTTGAGCAAAACCTTTTTCAA 4852
Db 6106 TCTCAGTATCACTTCTGCTGCTTTAGCACAGTTAGGAGTTGAGCAAAACCTTTTTCAA 6165
Qy 4853 CCCCCATAAATTTAATTAACAAAGCCAGTGTAAATTTGTTGGGATACAGTGTGATTAAT 4912
Db 6166 CCCCCATAAATTTAATTTGAACAAAGACTGTGAATTTGTTGGGATACAGTGTGATTAAT 6225
Qy 4913 GATCTATGTGTGATTTGTGCAAGGTTCAATAAGGTAGATCAATAGGCCATCAACAGCTT 4972
Db 6226 GATCTATGTGTGATTTGTGCAAGGTTCAATAAGATAGATTAATAGGCCATCAACAGCTT 6285
Qy 4973 TATGGGTGTAATGCAAGTAAATATAGGTAGATGCTGT-GTGTCTTTAGTGTGAGAAAG 5031
Db 6286 TATGGGTGTAATGCAAGTAAATATAGGTAGATGCTGTGTGTGCTTTAGTGTGAGAAAG 6345
Qy 5032 CATGATTTTAAGGCTTTGGGCAAAATCATATATATCAATGTTAAATGCAATTAATGTTGA 5091
Db 6346 CATGATTTTAAGGCTTTGGGCAAAATCATATATATCAATGTTAAATGCAATTAATGTTGA 6405
Qy 5092 TTATCAATCTTTTAGAGAGGCTGATCTTGGTTTGGTGTCTGAGCAAGCAAAATGTCACC 5151
Db 6406 TTATTAATCTTTTAGAGAGGCTGATCTTGGTTTGGTGTCTGAGCAAGCAAAATGTCACC 6465
Qy 5152 AGCTCTTTCTAACTAGTACCACTTTTAGAAAAATGCTACCGGTCTCAAAATGTTGTTGTT 5211
Db 6466 AGCTCTTTCTAACTAGTACCACTTTTAGAAAAATGCTACCTGTGCTCAAAATGTTGTTGTT 6525

Qy 5212 CTTATTTTTCATAGCTTGGAGAGCGGAGAGATCAAAAGCGATCGGGAACTGGACCTGCT 5271
Db 6526 CTTATTTTTCATAGCTTGGAGAGAGTGGAGAGATCAAGCCGATTTGGGAACTGGACCTGCT 6585
Qy 5272 GTTTATGCTCTCTGAGAAATGCTTTGCGTCTGAGCGAGAAAGCTAGAAAAAGAAAGAACTG 5331
Db 6586 GTTTATGCTCTCTGAGAAATGCTTTGCGTCTGAGCGAGAAAGCTAGAAAAAGAAAGAACTG 6645
Qy 5332 CTCTCTCTGCTCTTAAGAAAGAACATAAGATCCCTGAATGGAATTTTCTTAAAGGA 5391
Db 6646 CTCTCTCTGCTCTTAAGAAAGAACATAAGATCCCTGAATGGAATTTTCTTAAAGGA 6705
Qy 5392 AAGTGAAGACTAAGCTCCACCATCATTTAGAAAGATTTCAATGAAAACTGGCTCAGTTGA 5451
Db 6706 AAGTGAAGACTAAGCTCCACCATCATTTAGAAAGATTTCAATGAAAACTGGCTCAGTTGA 6765
Qy 5452 AAGAGAAAAATAGTGTCAAGTTGTCCATGAGACCAAGAGTGAAGTGAATAACCAAGAT 5511
Db 6766 AAAAGAAAAATAGTGTCAAGTTGTCCATGAGACCAAGAGTGAAGTGAATAACCAAGAT 6825
Qy 5512 TCATTGCAATATTTTATTTGTCATTGTAATGCAACAGAAAAAGTATGTACTTTTAAAAAA 5571
Db 6826 TCATTGCAATATTTTATTTGTCATTGTAATGCAACAGAAAAAGTATGTACTTTTAAAAAA 6885
Qy 5572 TTGTTTGAAGGAGGTTTACCTCTCATTCCTCTAGAGAAAAAGCCCTATGTAACTTCAATTC 5631
Db 6886 TTGTTTGAAGGAGGTTTACCTCTCATTCCTTTAGAAAAAAGCTTATGTAACTTCAATTC 6945
Qy 5632 CATAACCAATATCTTTATATATGTAAGTTTATTTATTAATAAGTATACATTTTATTTATGTC 5691
Db 6946 CATATCCAATATTTTATATATGTAAGTTTATTTATTAATAAGTATACATTTTATTTATGTC 7005
Qy 5692 AGTTTATTAATATGGAATTTTATATAGAAAAATTTATCTGATGTTGATATTTGAGTATATA 5751
Db 7006 AGTTTATTAATATGGAATTTTATATAGAAAAATTTATCTGCTATTTGATATTT-AGTATAAG 7064
Qy 5752 GCAATAATATTTATGATAATAACTATAGAAAAAGATATCTTAGGCTTTTAAATAAACACA 5811
Db 7065 GCAATAATATTTATGACAATACTATGAAAAAGATATCTTAGGCTTTTAAATAAACACA 7124
Qy 5812 TGAATATCATAAAATCTTCTGCTTTGTAATTTTCTCCCTTAAATATCAACAATACCATCA 5871
Db 7125 TGGATATCATAAAATCTTCTGCTTTGTAATTTTCTCCCTTAAATATCAACAATACCATCA 7184
Qy 5872 TCGTCATCATTTACCAATCATCTCATGACTTTCATGCTTGATCATATATCTCGTAAAG 5931
Db 7185 TCATCATCATTTACCAATCATCTCATGATTTCTCATGATTTCTGCTTGACCATATATATACTGTTAAA 7244
Qy 5932 TTTG 5935
Db 7245 GTTG 7248

RESULT 7

US-09-949-016-17185
; Sequence 17185, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0


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; SEQ ID NO 17185
; LENGTH: 8888
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-171

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Query Match 11.0%; Score 651.8; DB 3; Length 8888;
Best Local Similarity 53.3%; Pred. No. 1.3e-142;
Matches 3063; Conservative 0; Mismatches 2127; Indels 555; Gaps 58;

Query Match	11.0%;	Score 651.8;	DB 3;	Length 8888;
Best Local Similarity	53.3%;	Pred. No. 1.3e-142;		
Matches 3063;	Conservative 0;	Mismatches 2127;	Indels 555;	Gaps 58;
QY	356	CTCTCCTCTCAGTTATCAACTTTTGTACACTTGTGCGATCGGTGATGCGTGTGCTTCCTCGACGAA	415	
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QY	416	ATCTATGAGTTTTCCTTATGCGGAATTGTCGCGCAGCTGCTGCTTCTCATTTGCGCTT	475	
DB	2176	ATCTGTGAGCTCTTTCCTTATGCGGACCTTGGCCACCAAGCTGCTCTCTCTTGTGGCCCT	2235	
QY	476	GTGGGCCCGAGGCAAAATGGCTGCGCCATCAACCCGGTGCAGCTCTGAGGTGTCCAA	535	
DB	2236	CTTGGTACAGGAGGAGCAGCTGCGCCCATCAGCTCCACATGCAAGGCTTGACAAGTCCAA	2295	
QY	536	CTTCCAGCAGCGTACATCGTCAACCGCACCTTTATGCTGCGCCAAAGAGGTACAGCTGCA	595	
DB	2296	CTTCCAGCAGCCCTATATCAACCAACCGACCTTCACTGCTGGCTAAGAGGTATACATCTC	2355	
QY	596	TCCTTTTCTC-----TCCATACCGCCTTGCCATTTCTCTGAA	632	
DB	2356	AATCTCTCTTTCTCGTTGGATCTACTTGGAAATCCAAATAGTTCTTAAACTTTTCTTCA	2415	
QY	633	GCATCTTCCAACCTTTTAGGGGCGCTTATCTCCGCAAGTCTCACTACCTATGTTTCTG	692	
DB	2416	GAGCATCTTAAGACTTTTAGAACCACATGTTTATCCCTGAGGGTAGATAAATTTCTG	2475	
QY	693	TCCTTTAGAGACTCTTTAAGGACTGGATCTTTTTTCTATTCTTATTTCAAGGTCTCAGGA	752	
DB	2476	TTTTTTTCAGAGACTCTTTTGGGAATCTGCTTTTTTTTTTTCTTGAATCTCTTC-----	2529	
QY	753	CCATTTCTATCTTGGCGCTTCAGACACATATCTGAATTTTATCTACAGAGGCGCGTTT	812	
DB	2530	-----CTTCCATTTTGGCGCTTTATGATACATATGATGAATTTTTCCTCCAAAGAGCGCGCAAT	2585	
QY	813	AGAAAGCCACCCACGACTGCAATACTTTCC-----ATCCTGTGTGCTCTCTTCTCAACTCA	869	
DB	2586	CAGTAATCATCTGATGAATTTTTTTTTTCCTTATGCTCTGTGCAATTTGTTCTAAATCTCA	2645	
QY	870	TACTCTCTTGGCTACTC-----CTGAGACCCACTGCGAC	904	
DB	2646	TGCACACATCTGAATTTCTGCTTTTATGATCTTTAGTCTCTGCGGAGACGGATGGG	2705	
QY	905	ATACATCTCTACTTACAGGCTTTTCTTCCATCTCTTGTACACAGGCACTTAGGGTTTT	964	
DB	2706	GCACATGCTATGTATAAATTTTTTTTTTCTATTTGCTCAATGTCCAGACCCCTTAGTCTTTT	2765	
QY	965	C-TCTCTTTTCAGGCGCAGCTTGCAGATAACAACACAGACGTCCTGGCTCATCGGGGAGAA	1023	
DB	2766	CTTCTCTTCAGGCTAGCTTGGCTGATPACAAACACAGACGTTCTGTCTCATTTGGGAGAA	2825	
QY	1024	CTGTTCCGAGGAGTCAGTGTAAATCTCATCTGTGATGAGCAGGGC-----TA	1070	
DB	2826	CTGTTCCACGAGTCAGTGTAAAGCTACAGTTGTGACGAAACGGGCGCGGTGTCGCCATG	2885	
QY	1071	GCTGCGGAGCTGTGTGACCTCTGGGATAG-----TCTGAGTATGACCCCTGTGCTTC	1126	
DB	2886	GGTACTTTGGGGTGTGTGATGATGGTGTATAGGTTCTTATCCCTTATGACCCCTTCTGTTC	2945	
QY	1127	TTGTCTACTCTCAGGCTAAGGATCAGTGTCTACCTGTAGTGAACAGGCTGTCAAATTTCAACC	1186	
DB	2946	CCTTCCACTCGCATGATGATGAGCGCTGCTATCTGATGAACAGGCTGTGAACTTCAACC	3005	
QY	1187	TGGAAGACATTTCTGCTCCCCAGTCAGACAGTTTCCGGCCCTCATGACGAGGAGTGTGTC	1246	
DB	3006	TTGAAGAAGTGTCTGTTCCCTCAATCTGATAGGTTCCAGCCTTATATGACGAGGAGTGTGTC	3065	

1247	Qy	CTTTCTCTGACAACTCAGCAATCAGCTCAGCTCCTGCTGTGTAACTCTGGCTCTCGCTACCT	1306
3066	Db	CTTTCTCTGGCCAGGCTCAGCAACAGGCTAAGCACATGTGTAACTTTCAGCTCTCAGCCGTAT	3125
1307	Qy	ATGCTCCTCTCTCTTCTCTCTTCTTATTCAGTAAGAACCCGAGGTCTGTCCTCTCTCTCTCT	1366
3126	Db	GCCACACTACCCCTCTCTTCCCTCTTCCACAGAGACCCCTTACCCTTCTCTCTCTCTCTCT	3185
1367	Qy	TCACAAGAGTGAAGAGGGCCCTCAGCACCAACCATCATAGGCCCATTTGAAATAGGTCAC	1426
3186	Db	TCCCTCCTCTAAAGCTAGCAGGAAGAGTGCTTGGCAGCAGTGTTATCAGGAGTCA-3244	3244
1427	Qy	AAAGGCTTTGGCTTCAATTGAGTAATACTTTTGAAGTTTGTATTAAGTCTTTATTTTGT	1486
3245	Db	-----TTTGGGATCATAGAGTATTTGCTTTTGTCTTGAATGAGTCACTCTTGAGTTTA	3298
1487	Qy	TTATCCATGGAAGAAATCAACTCAAACTCTGTAGGATGAGAAGATGTTGGGAACCAAA	1546
3299	Db	TAGTGTGAATGGGTCTGGAACTTTAGTGTA CAGAAGCCGCATTTGGTTTGTCTTTCGGAA	3358
1547	Qy	AAAGGCTCATAGAGAAAACAGATCTGCTCAGTACAGTACTTATTTGGGGGGGGGGCAGG	1606
3359	Db	AAAGGCAACTCAGTTGCGTAGATGAGAAAGGTGTTGGGAANAACATCTAGATG--TG	3416
1607	Qy	GGGCGATATCCACTGAGTCCAAGTACTTGTGGGAGAGAAATCCACTGAGTCAAAGTACT	1666
3417	Db	GAATGGATCCATTGAGTCTAAGTTGTGTAGGGGAGGGGATGGCATGGAGAGAAATTAGA	3476
1667	Qy	TGTGGGGGAAGGAATGGCACAGAGCAAAAGTTGNAAGGAAAGAGGAAGATGGAGAGGCT	1726
3477	Db	AGAGAAAGTGGGAATGGGAAGGCTTAAAGTCG-----GTGGTGGGTGCGCAGACCTG	3528
1727	Qy	CAATGTTGGGGGTGTGAAGGTCACCTCTTTTCCATGTGATGAGAGTGTAAAGAAAAATC	1786
3529	Db	TTGCCCTGTTGATGTCATGGGAAGCCACAAAATCGAGGCGTGTGAACCTTGTATGCCGCTG	3588
1787	Qy	AGTGTGTGAGTTTGTATGCTCTTCAGACACCCCAACTATGGCAGACTGTGGGAGACCTGGCA	1846
3589	Db	AACATTTGAAACTATGAANAAGTTTGAGTGGAGTGGGCCAGTAAAGGCCCTAGGAC	3648
1847	Qy	TTTAGGGA-AGGCGCGCTTTTCACAGGAAACTTTATGCTCATCTCTTGTGCTACACT	1905
3649	Db	TTACTGAAGAGGCTTAATTTTACATGAGATGTTTTATGTATCATATTTCTTGTCTTAAGCA	3708
1906	Qy	CCACCTTTGATCAGGTTAGCTCAGGTTTCGTTTCT-----AC	1944
3709	Db	TGCAATTTTCTGGAGATACGATTGAGGTTTTATTTCCCTTA CAGAAATTTGCAATAACTACTC	3768
1945	Qy	CGTTCTTGCTACTGTGTGAAACTTCAGTAGGATTTCCCAAGACGAGGACAGCTCTTCTG	2004
3769	Db	CGCTCTTCCACAAATGCAAACTCAGTAGGATTTCCCAAGATGAAGAGGCTCTCTTG	3828
2005	Qy	TAAGGGAGGACCTGGATTTTCAGTGCTCTAGAGAACGAATAGCTCAGAGAACTTAGGTC	2064
3829	Db	TAAGGGAAGTGACTGGATTTCTGGCGTCCAAGGGAATTCAGAGGCTCAGGAAATCTAGGTC	3888
2065	Qy	AACGTGAAATCTAGGTCACAGCGGGCAAAATGACTGAAACGCTCTATTTCCAGGTGAACG	2124
3889	Db	ACTGTTGAAATCTAGGTCATTTGTGGGCAAAATTACTAAGAGCTTTAAATCCAGGTGAATT	3948
2125	Qy	GTACGTGCTCAGATATACGTAGGTTATTTGGGCTCCCAACGGATAAGATTTCTGTTAGTGA	2184
3949	Db	GTACTGTACTCTCAATGGGTGTGAGGTTTCATAAGTTTTCAGCAACAATTTAAGATAGTTA	4008
2185	Qy	-GTCTGCTTTTATTTTTCAGCACATCAGTGGTGACGACCAAGAACATCCAGAAAGATGTCA	2243
4009	Db	TGCTTGTATTGTTTTATASCAATTGAAGGTGATGACCTGCATATCCAGAGGAATGTC	4068
2244	Qy	GAAGGCTGAAGGAGACAGTGAAGAAAGGTACTATTGGCAAGCCCAATATCTAAGCCATTCA	2303
4069	Db	AAAAGCTTGAAGGACACAGTGAAGAAAGGTAGGACTGTATTAATGTCTCAATGTCAAGTCATGCA	4128

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Db 269 AATCCTGCTCTTCTCGTGTGATCTACTTGGAAATCCAAATAGTCTTTAAACTTTCTTCA 328
Qy 656 GCTTTATCTCCGAGGTCCTCACTACCTATGTTTTCTGTCT-----CTTTAGAG 703
Db 329 GAGCATCTCTAAGAGCTTTAGGAACCCACTGTTTATCCCTGAGGGTAGATAAAATTTTCTG 388
Qy 704 ACTCTTTAAGACCTGGATCTTTTTCTATTCTATTCTATTCTAAGTCTCAGACCAATTTCTAT 763
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Qy 764 CTTGGCTTTCAAGACACATATACCTGAATTTATCTACAGAGCGCGTTT--AGAAAGCCA 821
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Db 3171 GAGGCTGGAATGTAGCATGCCACAGACAGGCAATGCTTTACACATCTTCTCTTAAAAAT 3230
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RESULT 9

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US-09-354-243B-25
; Sequence 25, Application US/09354243B
; Patent No. 6359117
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Pa
; TITLE OF INVENTION: (TIPIs)
; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.1
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; CURRENT APPLICATION NUMBER: US/09/354,243B
; CURRENT FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 25
; LENGTH: 4797
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-09-354-243B-25
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Query Match 11.0%; Score 650; DB 3; Length 4797;
Best Local Similarity 56.5%; Pred. No. 2.6e-142;
Matches 1863; Conservative 0; Mismatches 1285; Indels 152; Gaps 29;
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Qy 356 CTCTCTCTCAGTATCAACTTTTGACACTTGTGCGATCGGTGATGCTGTCTCTCAATGGCCCT 415
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Qy 882 TACTC-----CTGAGACCACTGGGACATACATCTCTAC 916
Db 569 AATTTCTGCTTTTATGCTTTTATGATGTTGCTCTGGGAGAGCGGATGGGGCACAATGTCTAT 628
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Db 929 TGTTCCTCAATCTGATAGGTTCCAGCCTTATATGCGAGGAGTGGTCCCTTCCTGACCA 988
Qy 1259 AACTCAGCAATCAGCTCAGCTCCTGCTGTAAGTCTGGCTCGGCTACCTATGCTCCTCTCT 1318
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Qy 1379 GGAGGGCTCAGCACCAACCATCATAGGCCACTTGAATAGTGTCAACAAGGCTTTGGC 1438
Db 1109 TAAGCTAGCAGGAAGAAGTGTCTTGGCAGCAGTGTATCAGGAGTCA-----TTTGGG 1161
Qy 1439 TTCAATTGAGTAATCTTGTAGTTTGTATTAAGTTAAGCTTTATTTGTTTATCCATGGAA 1498
Db 1162 ATCATAGAGTATTTGCTTTTGGCTTTGACTGAGTCACATCTTGAGTTTATAGTGTGAATG 1221
Qy 1499 AGAAATCAACTCAAAATCTGTAGGATGAGAAAGATTTGGGAACGAAAAAGGCGCTAGAT 1558
Db 1222 GGGCTCGAACTTAAGTGTACAGAAAGCGCATTTGGTTTGTCTTCGGAAGAAAGCAATC 1281
Qy 1559 AGAGAAACAGATCTGCTGAGTACAGTACTTATGGGGGGGGGGGAGGGGGCGATATCCA 1618
Db 1282 AGGTTGGCGTAA---GATGAGAAAGGTGTGGGAAGAAACATCTAGCTGTGGAAATGGATCCA 1338
Qy 1619 CTGAGTCCAACTACTGTGTGGGAGAGAAATCCACTGAGTACAAGTACTGTGGGGGAAGG 1678
Db 1339 TTGAGCTTAAGTGTGTGAGGGGAGGGGATGCGATGGAGAGAAATTTAGAGAGAAAGTGGG 1398
Qy 1679 AATGGCAGAGCAAAAGTTGAAGGGAAGAGAGAGATGGAGAGCGCTCAATGTGTGGGG 1738
Db 1399 AAATGGGAAGCTTAAAGTGG-----GTGGTGGGTCCGCAGACTGTTGCCCTGTGA 1450
Qy 1739 TGTGAAGGTCACTCTCTTTTCCATGTGATGGAGAGTTAAGAAAAATCAGTGTGTGAGTT 1798
Db 1451 TGTATGGGAAGCCACAAAAATCGAGGCGTGTGAATTTGATGGCGCTGAAACATTTGAAC 1510
Qy 1799 TGATGCTTTCAGACACCCCACTATGGCAGACTGTGGGAGACCTGGCAATTTAGGGA-AGG 1857
Db 1511 TATGAAGAAAAAGTTGAGTGAGTGGGCCCAAGTAAAGGCCCTAGGACTTACTGAAGAGG 1570
Qy 1858 CGCGGCTTTTTCACACGAGAACTTTATGCTCATCTCTTGTGCTACACTCCACCTTTGAT 1917
Db 1571 GCTTAAATTTTACATGAGATGTTTATGTAATTTCTGTTCTAAGCATGCAATTTTCTG 1630
Qy 1918 GAGTTTAAGCTCAGTTTCTGTTCT-----ACCGTTCTTGCTAC 1956
Db 1631 GAGATACGATTTGAGGTTTTTATTCCTTACAGAAATTTGCAATACTACTCCGCTCTTCCAC 1690
Qy 1957 TGGTGGAACTTCAGTAGGATTTCCCAAGACAGGACAGCTCTCTGTAGGAGGGGAC 2016
Db 1691 AAATGCAAACTTCAGTAGGATTTCCCAAGAGATGAAGAGGTCTCTTGTAAAGGGAAGTGA 1750
Qy 2017 CTGGATTTTCACTGTCTAGAGAACGAAATAGCTCAGAGAACTTAGGTCAACGCTGAAATCT 2076
Db 1751 CTGGATTTCTGGCTCCAAGGNAATTCAGAGCTCAGGAATCTAGGTCACTGTTGGAATC 1810
Qy 2077 AGGTACAGCGGGGCAAAATGAGTGAACGCTCTATTTCCAGGTGAACGGTCACGTGCCTC 2136
Db 1811 TAGGTCAATTTGGGGCAAAATTTACTAAGAGCTTTAATTTCCAGGTGAATTTGTACTGTACCTC 1870
Qy 2137 AGATATCTGAGGTATTTGGGCTCCACCGGATATAGATTCTGTTAGTGA-GTCTGCTTTTA 2195
Db 1871 CATGGGTGTGAGGTTTCATAAAGTTTCAGCAACATTTAAGATGTTATGTTGTTATG 1930
Qy 2196 TTTTTCAGCAGCATCAGTGGTGCAGCAGCAACATCCAGAGAAATGTCAGAGGCTGAAGG 2255

Db 1931 TTTTATAGCATATTTGAAGGTGATGAACCTGTCATATCCAGAGGAATGTGCAAAAGCTGAAGG 1990
Qy 2256 AGACAGTGAAGAAAGGTACTATTGCGAAGCCACAATACTAAGCCATTTCAGTAGGAGAGCTG 2315
Db 1991 ACACAGTGAAGAAAGGTAGGACTGATTAATGCTCAATGCTAAGTCAATGCAATAGGAGAGCA 2050
Qy 2316 GGGATTTCTTTCTCTGCTCTCCAGTCTCTTCT--ACTTTGTAAACATTTTCTTTGACTTGT 2373
Db 2051 AATGTTGTTTCTTTCT 2110
Qy 2374 CTACTGTCTGTCATTTACTTACTTAGCTGCACCTGCATCTAGCTGGGTCTATAGATCTT 2433
Db 2111 CTACCACAGGGGGATTT---ACTTTGGTCTGTGTATGTAGATATATCTATATATCTA 2166
Qy 2434 TCAATCTGCTCTATAAATTT---GTAAGTCAAAATCTGGAGCTAGCAGAAAGCTTAGCTC 2490
Db 2167 GATGTCAGTTTCCAAATCTTGGCAATTTGTAGAAATCTTAGAACTGGTTGGGATCTTAGCTT 2226
Qy 2491 AGCCAGTCTCATGAGCACTTGTCTGGAGGATGGCTTGTGACAGAGTCAAATGCTAGAAGAC 2550
Db 2227 GTCTAGTCAATAACCTCAGATTTCTGGGATGGTCACTGGCAGAGATAGGCTAGAAATGC 2286
Qy 2551 AGAATCCCTGATTTCCAGCTCTGCAC--TTGCTAGTGGCCACGCTGTAATTTACTTTAGCCT 2609
Db 2287 AGGTCTCCTGAATCCCAAGCCAGCACCTTTTCCGGTGGTGATACAGATTTAGTTTGGTAC 2346
Qy 2610 GATTAAGTATTTGGGAAA--GCCAAATTCACGACCTCATATATCCGAAGACATGCA 2667
Db 2347 CATTAATTTCTTAGGGAATTTTCAGATTCCTATTGACTCATGTAATCTGGAAGATCTTGT 2406
Qy 2668 TTGAAAACTAGAAA---GCTGGGCAAAAATTTCTAGAGATGATTTTTTGAGCTCATATA 2723
Db 2407 TTTAAAAACAGAAAAATGCTATGGGCAATTTATTTTGAAGTCAATTTTGAAGTCAATA 2466
Qy 2724 ACTGATCTCTGAAATGTGATCAAAATCAACCCAGATAACAAACAAAGAGCTGATTTGC 2783
Db 2467 TGCATTTCTTTGAATCTTGAAGAAATAAATCTCAACAAATGAGAAAAAGAGCTGACCTGC 2526
Qy 2784 AAATAGCACAAGTATTTAGAAATCACTGATTTAAACAGCTGTCTATTAATTAATAATAG 2843
Db 2527 ATATAGGCTTAATTTCTGGAGTATAAACHACTTAT-----TTTGAATTTATTAATA 2578
Qy 2844 TGTCTATTTAGTCTGCTTATTTAAGATTTAAACACAAGAGTGGATAACTTTCCCAATTTACTG 2903
Db 2579 TCT---ATCAGATATTGATTTATAGTTTAAAGCAAGAGCAGACAAC-CCCGATCTCTTTT 2634
Qy 2904 GGCCTGTTTCAATAGAGTAAAAATATCAGTCAATAGATTAATTTATAGTGTGATGAAGTA 2963
Db 2635 ATACAGGTTCAAAATAGAGTAAAAATATTAGTAAGAGATTTATTATAGTTAAATGGAAGTC 2694
Qy 2964 TGAGTGGGAACC---CTTTCTTACTTTTACCCTTCAATTTCTTAGTTTATTATTTTCTTT 3020
Db 2695 TGAATTTGGTAGCTTTTCTTCT 2754
Qy 3021 TCTTTCACACCTGATCAAGCCACTAGTAAGCACCTATCTGCTGCGAGCTATTATATGACT 3080
Db 2755 CTTTCACTCTCTCAACAAATCCCTAGGAGCATTTATCCATGTTGGGCTGGTGTACATTT 2814
Qy 3081 TTACAGCAAAACAAATTTGCTGTGTGGCTCTTTTGGGGAAGGGAACAGGATAGCAGGAGGC 3140
Db 2815 CTATAGTGAATGATACCATCATGTGGCTATTGTGGTGAAGAAACA--ACAATGGAAGGC 2872
Qy 3141 TCAGGCTAGCAAGTCTGAGCTCAACCTAAAGCCAGAGCATGTTGTATAGCAGAGAAAGT 3200
Db 2873 TTAGACTAAACAATAGT--GACTCACCCCAAAACCGAGGAATGATTTAGGAGCAGTGAAAGT 2931
Qy 3201 GAGGCTCTTCAACAAGTGGGTGCTTAAGTAAATCAGAAAAAGGAGGCTCTGGTTGATGG 3260
Db 2932 GACGCTCTT--GCAAGCAGGTACAACTAAATACTCAGAAAAACATGAAGGCTCCAGCTTGTATG 2990
Qy 3261 AATTATCAGTAAGATATCTACCTTATCTCC-----TTCTTCTATAGAGCTTAACCG 3313
Db 2991 AATTTTCAGTAACAGCTTAACCTTAAATTTCCCTTTTTCCTCTTGTACTTTTAAAAAA 3050


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Qy 3314 TCTCTCTCTCTGTGTAGCTGATAAACACGCTTCTT--TTCTTTTGTAGTGTTCATGG 3371
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 3051 GCGTTCCTCTGAGCATCATTTAATGAGTGTGACTGTTCTCTCTTGTGATAATTGAAGG 3110
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 3372 CTTTGCAGATTTTCAGTCTCTGCCAGTCTTCTGT--TAGAGGGTTCCTTACCTTGACACC 3429
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 3111 CTTTGTAGTTTAAATTTGAAGCCAGTTCCTCTGTGTATAGAACTATATCTAGACATG 3170
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 3430 TGGCTTGGATGTTAGCATGCCAAAGGCACACACTTCTGAATGCTGTGTAAAAGGTTAT 3489
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 3171 GAGGCTGAATGTTAGCATGCCACAGCAAGGCATGCTTTACACATCTTCTTAAAAAAT 3230
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 3490 TATTCATTACT-----TTGTCTTTGGAAGGTGAAGTGTGTGTGAGAAAGAACTCA 3541
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 3231 TACTGATTCATCTTGCTTGTCTTGTCTTTAGAAAAGTGAAGTGTGAGAGAGAGAACTCA 3290
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 10
US-09-178-9738-9
; Sequence 9, Application US/091789738
; Patent No. 6274710
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: (Tifs) The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543
; CURRENT APPLICATION NUMBER: US/09/178, 9738
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 17
; SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-178-9738-9

Query Match 10.1%; Score 602.4; DB 3; Length 1111;
Best Local Similarity 99.8%; Pred. No. 2e-131;
Matches 603; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 5221 ATAGCTTGGAGAGCGGAGAGATCAAAGCGATCGGGAACTGGACCTGCTGTTTATGTC 5280
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 508 AAAGCTTGGAGAGCGGAGAGATCAAAGCGATCGGGAACTGGACCTGCTGTTTATGTC 567
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 5281 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAACGAAAGAACTGCTCTTCCT 5340
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 568 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAACGAAAGAACTGCTCTTCCT 627
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 5341 GCCTTCTTAAAGAAACAATAAGATCCCTGAATGACCTTTTACTTAAAGGAAAGTGAGAA 5400
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 628 GCCTTCTTAAAGAAACAATAAGATCCCTGAATGACCTTTTACTTAAAGGAAAGTGAGAA 687
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 5401 GCTAACCTCCACCATCATTTAGAAGATTTTCATGAAACCTGGCTCAGTTGAAAGAGAAAA 5460
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 688 GCTAACCTCCACCATCATTTAGAAGATTTTCATGAAACCTGGCTCAGTTGAAAGAGAAAA 747
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 5461 TAGTGCAAGTTGTCCATGAGACAGAGGTAGACTTGATTAACCAAGATTCATTGACA 5520
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 748 TAGTGCAAGTTGTCCATGAGACAGAGGTAGACTTGATTAACCAAGATTCATTGACA 807
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 5521 ATATTTTATTGTCATTGATTAATGCAACAGAAAAAGTATGACTTTTAAAAAATTTGTTGAA 5580
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 808 ATATTTTATTGTCATTGATTAATGCAACAGAAAAAGTATGACTTTTAAAAAATTTGTTGAA 867
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 5581 AGGAGGTTACCTCTCATCTCTAGAGAAAAAGCTATGTAACCTTCAATTTCCATAACCAA 5640
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 868 AGGAGGTTACCTCTCATCTCTAGAGAAAAAGCTATGTAACCTTCAATTTCCATAACCAA 927
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 5641 TACTTTATATATGTAAGTTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 5700
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
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Db 928 TACTTTATATATGTAAGTTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 987
Qy 5701 ATATGGATTTTATTTATAGAAAAATTTATCTGATGTTGATATTTGAGTATAAAGCAAAATAAT 5760
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 988 ATATGGATTTTATTTATAGAAAAATTTATCTGATGTTGATATTTGAGTATAAAGCAAAATAAT 1047
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 5761 ATTTATGATTAATTAACCTATAGAAAAAAGATATCTTAGGCTTTTATATAACACATGAATATCA 5820
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1048 ATTTATGATTAATTAACCTATAGAAAAAAGATATCTTAGGCTTTTATATAACACATGAATATCA 1107
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 5821 TAAA 5824
Db ||||| |||||
Qy 1108 TAAA 1111
Db ||||| |||||

RESULT 11
US-09-419-568F-9
; Sequence 9, Application US/09419568F
; Patent No. 6331613
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: (Tifs) The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/09/419, 568F
; PRIOR FILING DATE: 1999-10-18
; CURRENT APPLICATION NUMBER: US09/354, 243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178, 973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-419-568F-9

Query Match 10.1%; Score 602.4; DB 3; Length 1111;
Best Local Similarity 99.8%; Pred. No. 2e-131;
Matches 603; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 5221 ATAGCTTGGAGAGCGGAGAGATCAAAGCGATCGGGAACTGGACCTGCTGTTTATGTC 5280
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 508 AAAGCTTGGAGAGCGGAGAGATCAAAGCGATCGGGAACTGGACCTGCTGTTTATGTC 567
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 5281 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAACGAAAGAACTGCTCTTCCT 5340
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 568 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAACGAAAGAACTGCTCTTCCT 627
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 5341 GCCTTCTTAAAGAAACAATAAGATCCCTGAATGACCTTTTACTTAAAGGAAAGTGAGAA 5400
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 628 GCCTTCTTAAAGAAACAATAAGATCCCTGAATGACCTTTTACTTAAAGGAAAGTGAGAA 687
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 5401 GCTAACCTCCACCATCATTTAGAAGATTTTCATGAAACCTGGCTCAGTTGAAAGAGAAAA 5460
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 688 GCTAACCTCCACCATCATTTAGAAGATTTTCATGAAACCTGGCTCAGTTGAAAGAGAAAA 747
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 5461 TAGTGCAAGTTGTCCATGAGACAGAGGTAGACTTGATTAACCAAGATTCATTGACA 5520
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 748 TAGTGCAAGTTGTCCATGAGACAGAGGTAGACTTGATTAACCAAGATTCATTGACA 807
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 5521 ATATTTTATTGTCATTGATTAATGCAACAGAAAAAGTATGACTTTTAAAAAATTTGTTGAA 5580
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 808 ATATTTTATTGTCATTGATTAATGCAACAGAAAAAGTATGACTTTTAAAAAATTTGTTGAA 867
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 5581 AGGAGGTTACCTCTCATCTCTAGAGAAAAAGCTATGTAACCTTCAATTTCCATAACCAA 5640
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 868 AGGAGGTTACCTCTCATCTCTAGAGAAAAAGCTATGTAACCTTCAATTTCCATAACCAA 927
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 5641 TACTTTATATATGTAAGTTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 5700
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
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Db      928  TACITTTATATGTAAGTTTATTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 987
Qy      5701 ATATGGATTTTATTTATAGAAAAATATCTGATGTTGATATTTGAGTATAAAGCAAAATAAT 5760
Db      988  ATATGGATTTTATTTATAGAAAAATTTATCTGATGTTGATATTTTGAGTATAAAGCAAAATAAT 1047
Qy      5761 ATTTATGATAAATACTATAGAAACAAGATATCTTAGGCTTTTAAATAAACACATGAATATCA 5820
Db      1048 ATTTATGATAAATACTATAGAAACAAGATATCTTAGGCTTTTAAATAAACACATGAATATCA 1107
Qy      5821 TAAA 5824
Db      1108 TAAA 1111

RESULT 12
US-09-354-243B-9
; Sequence 9, Application US/09354243B
; Patent No. 6359117
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Pe
; TITLE OF INVENTION: (Tifs)
; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.1
; CURRENT APPLICATION NUMBER: US/09/354,243B
; CURRENT FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-354-243B-9

Query Match          10.1%; Score 602.4; DB 3; Length 1111;
Best Local Similarity 99.8%; Pred. No. 2e-131;
Matches 603; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      5221 ATAGCTTGGAGAGCGGAGAGATCAAAAGCGATCGGGAACTGGACCTGCTGTTTATGTC 5280
Db      508  AAAGCTTGGAGAGCGGAGAGATCAAAAGCGATCGGGAACTGGACCTGCTGTTTATGTC 567
Qy      5281 TCTGAGAAATGCTTGCCTCTGAGCGAGAGAGCTAGAAAAAGAACTGCTCCTTCCT 5340
Db      568  TCTGAGAAATGCTTGCCTCTGAGCGAGAGAGCTAGAAAAAGAACTGCTCCTTCCT 627
Qy      5341 GCCTTCTAAAAAGAAACAATAAGATCCCTGAATGACATTTTACTTAAAGGAAAGTGAGAA 5400
Db      628  GCCTTCTAAAAAGAAACAATAAGATCCCTGAATGACATTTTACTTAAAGGAAAGTGAGAA 687
Qy      5401 GCTAACGTCACACATCATTTAGAGATTTTCAATGAAACCTGGCTCAGTTGAAAGAGAAAA 5460
Db      688  GCTAACGTCACACATCATTTAGAGATTTTCAATGAAACCTGGCTCAGTTGAAAGAGAAAA 747
Qy      5461 TAGTGTCAAGTTGTCCATGAGACCGAGAGTAGACTTTGATAACCAAGATTCATTGACA 5520
Db      748  TAGTGTCAAGTTGTCCATGAGACCGAGAGTAGACTTTGATAACCAAGATTCATTGACA 807
Qy      5521 ATATTTTATTTGTCATTTGATAATGCAACAGAAAAAGTATGTACTTTTAAAAAAATTTGTTGAA 5580
Db      808  ATATTTTATTTGTCATTTGATAATGCAACAGAAAAAGTATGTACTTTTAAAAAAATTTGTTGAA 867
Qy      5581 AGGAGGTTACCTCTCATTTCTAGAGAAAGCCATGTAACTTCATTTCCATAACCAA 5640
Db      868  AGGAGGTTACCTCTCATTTCTAGAGAAAGCCATGTAACTTCATTTCCATAACCAA 927
Qy      5641 TACITTTATATGTAAGTTTATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 5700
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Db      928  TACITTTATATGTAAGTTTATTTATTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 987
Qy      5701 ATATGGATTTTATTTATAGAAAAATTTATCTGATGTTGATATTTGAGTATAAAGCAAAATAAT 5760
Db      988  ATATGGATTTTATTTATAGAAAAATTTATCTGATGTTGATATTTTGAGTATAAAGCAAAATAAT 1047
Qy      5761 ATTTATGATAAATACTATAGAAACAAGATATCTTAGGCTTTTAAATAAACACATGAATATCA 5820
Db      1048 ATTTATGATAAATACTATAGAAACAAGATATCTTAGGCTTTTAAATAAACACATGAATATCA 1107
Qy      5821 TAAA 5824
Db      1108 TAAA 1111

RESULT 13
US-09-178-973B-7
; Sequence 7, Application US/09178973B
; Patent No. 6274710
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: (Tifs)
; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543
; CURRENT APPLICATION NUMBER: US/09/178,973B
; CURRENT FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 17
; SEQ ID NO 7
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-178-973B-7

Query Match          9.4%; Score 555.2; DB 3; Length 1119;
Best Local Similarity 96.0%; Pred. No. 2.5e-120;
Matches 580; Conservative 0; Mismatches 23; Indels 1; Gaps 1;

Qy      5221 ATAGCTTGGAGAGCGGAGAGATCAAAAGCGATCGGGAACTGGACCTGCTGTTTATGTC 5280
Db      510  AAAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTTGGGGAACTGGACCTGCTGTTTATGTC 569
Qy      5281 TCTGAGAAATGCTTGCCTCTGAGCGAGAGAGCTAGAAAAAGAACTGCTCCTTCCT 5340
Db      570  TCTGAGAAATGCTTGCCTCTGAGCGAGAGAGCTAGAAAAAGAACTGCTCCTTCCT 629
Qy      5341 GCCTTCTAAAAAGAAACAATAAGATCCCTGAATGACATTTTACTTAAAGGAAAGTGAGAA 5400
Db      630  GCCTTCTAAAAAGAAACAATAAGATCCCTGAATGACATTTTACTTAAAGGAAAGTGAGAA 689
Qy      5401 GCTAACGTCACACATCATTTAGAGATTTTCAATGAAACCTGGCTCAGTTGAAAGAGAAAA 5460
Db      690  GCTAACGTCACATCATTTAGAGATTTTCAATGAAACCTGGCTCAGTTGAAAGAGAAAA 749
Qy      5461 TAGTGTCAAGTTGTCCATGAGACCGAGAGTAGACTTTGATAACCAAGATTCATTGACA 5520
Db      750  TAGTGTCAAGTTGTCCATGAGACCGAGAGTAGACTTTGATAACCAAGATTCATTGACA 809
Qy      5521 ATATTTTATTTGTCATTTGATAATGCAACAGAAAAAGTATGTACTTTTAAAAAAATTTGTTGAA 5580
Db      810  ATATTTTATTTGTCATTTGATAATGCAACAGAAAAAGTATGTACTTTTAAAAAAATTTGTTGAA 869
Qy      5581 AGGAGGTTACCTCTCATTTCTAGAGAAAGCCATGTAACTTCATTTCCATAACCAA 5640
Db      870  AGGAGGTTACCTCTCATTTCTAGAGAAAGCCATGTAACTTCATTTCCATAACCAA 929
Qy      5641 TACITTTATATGTAAGTTTATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 5700
Db      930  TAITTTATATATGTAAGTTTATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 989
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[illegible]

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RESULT 14
US-09-419-568F-7
; Sequence 7, Application US/09419568F
; Patent No. 6331613
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: (TIPIs) The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/09/419,568F
; CURRENT FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 7
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-419-568F-7

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Query Match	9.4%	Score 555.2;	DB 3;	Length 1119;
Best Local Similarity	96.0%;	Pred. No. 2.5e-120;		
Matches 580;	Conservative 0;	Mismatches 23;	Indels 1;	Gaps 1;
Qy	5221	ATAGCTTGGAGAGCGGAGAGATCAAAAGCGATCGGGAACTGGACCTGCTGTTTATGTC	5280	
Db	510	AAAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC	569	
Qy	5281	TCTGAGAAATGCTTTCGCTCTGAGCGAGAGAGCTAGAAAACGAGAAGCTGCTCCTTCCT	5340	
Db	570	TCTGAGAAATGCTTTCGCTCTGAGCGAGAGAGCTAGAAAACGAGAAGCTGCTCCTTCCT	629	
Qy	5341	GCCTTCTAAAAAGAACAATTAAGATCCCTGAATGGACCTTTTTTACTAAAGCAAAAGTGAGAA	5400	
Db	630	GCCTTCTAAAAAGAACAATTAAGATCCCTGAATGSACTTTTTTACTAAAGGAAAGTGAGAA	689	
Qy	5401	GCTAACGCTCCACCATCATTTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAGAGAAAA	5460	
Db	690	GCTAACGCTCCATCATTTAGAGAGATTTTCATGAAACCTGGCTCAGTTGAAAAGAGAAAA	749	
Qy	5461	TAGTGTCAAGTTGTTCATGTAGACACAGAGGTAGACTTGATTAACCAAGAAGATTCAATTCACA	5520	
Db	750	TAGTGTCAAGTTGTTCATGTAGACACAGAGGTAGACTTGATTAACCAAGAAGATTCAATTCACA	809	
Qy	5521	ATATTTTATTGTCTATTCATATGCAACAGAGAAAGTATGTACTTTTAAAAAATGTTTGA	5580	
Db	810	ATATTTTATTGTCTACTGATGATACACAGAAAAAATAATGTACTTTTAAAAAATGTTTGA	869	
Qy	5581	AGGAGGTTACCTCTCATTCCTTAGAAGAAAAGCTATGTAACTTCATTTCCATAACCAA	5640	
Db	870	AGGAGGTTACCTCTCATTCCTTAGAAGAAAAGCTATGTAACTTCATTTCCATAACCAA	929	
Qy	5641	TACTTTATATATGTAAGTTTATTTTATTAAGTATACATTTTATTTATGTCAAGTTTATTA	5700	
Db	930	TATTTTATATGTAAGTTTATTTTATTAAGTATACATTTTATTTATGTCAAGTTTATTA	989	

Qy	5701	ATATGGATTTATTATATAGAAAATTAATCTGATGCTTTCATATTTGAGTATATAAGGCAATATAAT	5761
Db	990	ATATGGATTTATTATATAGAAAATTAATCTGATGCTTTCATATTT-AGTATAAGGCAATATAAT	1048
Qy	5761	ATTTATGATATAATAACTATAGAAAACAAGATATCTTAGGCTTTAATAAACACATCAATCA	5820
Db	1049	ATTTATGACATAACTATAGAAAACAAGATATCTTAGGCTTTAATAAACACATGATATCA	1108
Qy	5821	TAAA 5824	
Db	1109	TAAA 1112	

RESULT 15
 US-09-354-243B-7
 ; Sequence 7, Application US/09354243B
 ; Patent No. 6359117
 ; GENERAL INFORMATION:
 ; APPLICANT: Dumoutier, Laure
 ; APPLICANT: Louhed, Jamila
 ; APPLICANT: Renauld, Jean-Christophe
 ; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducers
 ; TITLE OF INVENTION: (Tifs)
 ; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
 ; FILE REFERENCE: LUD 5543.1
 ; CURRENT APPLICATION NUMBER: US/09/354,243B
 ; CURRENT FILING DATE: 1999-07-16
 ; PRIOR APPLICATION NUMBER: US09/178,973
 ; PRIOR FILING DATE: 1998-10-26
 ; NUMBER OF SEQ ID NOS: 29
 ; SEQ ID NO 7
 ; LENGTH: 1119
 ; TYPE: DNA
 ; ORGANISM: Mus musculus
 ; FEATURE:
 ; US-09-354-243B-7

Query Match	9.4%	Score 555.2;	DB 3;	Length 1119;
Best Local Similarity	96.0%;	Pred. No. 2.5e-120;		
Matches 580;	Conservative 0;	Mismatches 23;	Indels 1;	Gaps 1;
Qy	5221	ATAGCTTGGAGAGCGGAGAGATCAAGCGATCGGGGAACCTGGACCTGCTGTTTATGTC	5280	
Db	510	AAAGCTTTGGAGAGAGTGGAGAGATCAAGGCGATTTGGGGAACCTGGACCTGCTGTTTATGTC	569	
Qy	5281	TCTGAGAAATGCTTTCGCTCTGACGGAGAGAAGCACTAGAAAAACGAAGAACTGCTTCCTTCCT	5340	
Db	570	TCTGAGAAATGCTTTCGCTCTGACGGAGAGAAGCTAGAAAAACGAAGAACTGCTTCCTTCCT	629	
Qy	5341	GCCTTCTAAAAAGAACAAATAAGATCCCTGAAATGGACCTTTTTTACTAAAGGAAAGTGAGAA	5400	
Db	630	GCCTTCTAAAAAGAACAAATAAGATCCCTGAAATGGACCTTTTTTACTAAAGGAAAGTGAGAA	689	
Qy	5401	GCTAACGCTCCACCATCATTTAGAAGATTTCACTGAAGAACCTGGCTCAGTTGAAAGAGAGAAAA	5460	
Db	690	GCTAACGCTCCATCATTTAGAAGATTTCACTGAAGAACCTGGCTCAGTTGAAAGAGAGAAAA	749	
Qy	5461	TAGTGTCAGTTGTCATGAGACACAGAGGTAGACTTTGATTAACACAAAGATTCATTGACA	5520	
Db	750	TAGTGTCAGTTGTCATGAGACACAGAGGTAGACTTTGATTAACACAAAGATTCATTGACA	809	
Qy	5521	ATATTTTATTTGTCATTTCATATGCAACACAGAAAAGTATGTACCTTTTAAAAAATTTGTTGAA	5580	
Db	810	ATATTTTATTTGTCATTTCATATGCAACACAGAAAATTAATGTACCTTTTAAAAAATTTGTTGAA	869	
Qy	5581	AGGAGGTTACCTCTCATTTCTCTTAGAAGAAAAGCCCTATGTAACTTCATTTCCCAATAACCAA	5640	
Db	870	AGGAGGTTACCTCTCATTTCTCTTAGAAGAAAAGCCCTATGTAACTTCATTTCCCAATAACCAA	929	
Qy	5641	TACCTTTATATATGTAAGTTTATTTATTAATTAAGATATACATTTTATTTATGTCAGTTTATTA	5700	
Db	930	TATTTTATATATGTAAGTTTATTTATTAATTAAGATATACATTTTATTTATGTCAGTTTATTA	989	

Qy	5701	ATATGGATTTTATTTATAGAAAAATTATCTGATGTTTGATATTTGAGTATAAAGCAATAAT	5760
Db	990	ATATGGATTTTATTTATAGAAACATTATCTGCTATTGATATTT-AGTATAGGCCAATAAT	1048
Qy	5761	ATTTATGATAATAACTATAGAAAAACAAGATATCTTAGGCTTTAATAAACAACATGAATATCA	5820
Db	1049	ATTTATGACAATAACTATGGAACAAGATATCTTAGGCTTTAATAAACAACATGGATATCA	1108
Qy	5821	TAAA	5824
Db	1109	TAAA	1112

Search completed: December 20, 2005, 21:42:37
Job time : 742.791 secs

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Qy 301 TATCCGACGAGCATGTTCCTCCGTGATGTTTTCGCTTCTTCGCTAACAGGCTCTC 360
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Qy 361 CTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGCTCTCGAGAAATCTA 420
Db 361 CTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGCTCTCGAGAAATCTA 420
Qy 421 TGAGTTTTTCCCTTATGCGGACTTTTGGCCGCCAGCTGCTGCTTCTCAATTGCCCCGTGGG 480
Db 421 TGAGTTTTTCCCTTATGCGGACTTTTGGCCGCCAGCTGCTGCTTCTCAATTGCCCCGTGGG 480
Qy 481 CCCAGGAGGCAAAATGCGCTGCCATCAACACCCCGGTGCAAGCTTGAGGTGCCAACTTCC 540
Db 481 CCCAGGAGGCAAAATGCGCTGCCATCAACACCCCGGTGCAAGCTTGAGGTGCCAACTTCC 540
Qy 541 AGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGGAGGTACAGCTGCATCTCT 600
Db 541 AGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAGGAGGTACAGCTGCATCTCT 600
Qy 601 TTCTCTCCATACCGCTTGGCCATTTCTGAAGCACTTGCAAACTCTTTAGGGGCGCTTT 660
Db 601 TTCTCTCCATACCGCTTGGCCATTTCTGAAGCACTTGCAAACTCTTTAGGGGCGCTTT 660
Qy 661 ATCTCCGAGGTCTACATCTATGTTTTCTCTTTTAGAGACTCTCTTTAAGACTGGA 720
Db 661 ATCTCCGAGGTCTACATCTATGTTTTCTCTTTTAGAGACTCTCTTTAAGACTGGA 720
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Db 721 TCTTTTCTATTTCTATTTCAAGGTCTCAGACCAATTTCTCTATCTTGGCCTTCAGGACAC 780
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Db 781 ATATACTGAAATTTTATCTACAGAGCGGTTTAGAAGCCACCCACGACTGCAATACTTT 840
Qy 841 CCATCTGTGTGCTCTCTCTGAACCTATCTCTTTGGTACTCTCTGAGACCACTAGC 900
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Db 901 GGACATACATCTACTTACAGGCTTTTCTTCCATCTCTCTTGTCAACCGAGCACTTAGG 960
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Db 1021 AAATGTTTCCGAGGAGTCAGTGAAGTCTCACTGTGATGACGAGGCTAGCTGCGGAG 1080
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Db 1081 CTGTTGACCCCTCTGGGATAGTCTGACGTATGACCCCTGCTGCTTCTTGTCTACTGCGAG 1140
Qy 1141 GCTAAGGATCAGTGTCTACTGATGAAGCAGGTGCTCAACTTCAACCTGGAAGACATCTG 1200
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Db 1381 AGGCGCTTCAGCACCAACCATCATAGCCACATTTGAATAGGTACAAAGGCTTTGGCTT 1440
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Db 1861 GGCTTTTTCACACGAGAAACTTTATGCTCATCTCTGTGTACACTCCACCTTTGATGAG 1920
Qy 1921 GTTAAAGTCAAGTTTCGTTTCTACCGTTCTGTCTACTGTTGGTGGAACTTCACTAGGATGCC 1980
Db 1921 GTTAAAGTCAAGTTTCGTTTCTACCGTTCTGTCTACTGTTGGTGGAACTTCACTAGGATGCC 1980
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Db 2041 GAAATAGCTCAGAGAAATCTAGGTCAACGTGAAATCTAGGTCAACGCGGGCAAAATGACT 2100
Qy 2101 GAAAGCTCTATTTCCAGGTGAAACGCTCACTGCTCAGATATCTAGGTTATGGGCTCC 2160
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Db 2161 CACCGGTAAGATTTCTGTTAGTGTGCTGCTTTTATTTTGCAGCACATCACTGTTGACGA 2220
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Qy 2281 AAGCCATATCTAAGCCATTTCACTAGGAGACGTGGGGATTTCTTCTCTGTTCCCACT 2340
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Qy	2461	CAATTCGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCACTTGTCTCGGAGGA	2520
Db	2461	CAATTCGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCACTTGTCTCGGAGGA	2520
Qy	2521	TGGCTTTGTGACAGAGTCAATGCTTAGAAGACAGCATCCCTGATTTCCAGCTCTGCACTTGC	2580
Db	2521	TGGCTTTGTGACAGAGTCAATGCTTAGAAGACAGCATCCCTGATTTCCAGCTCTGCACTTGC	2580
Qy	2581	CTAGTGCCACGCTGTAATTACTTTAGCGCTGATTAAGTATTTGGGAAAGCCAAATTTCCCAAC	2640
Db	2581	CTAGTGCCACGCTGTAATTACTTTAGCGCTGATTAAGTATTTGGGAAAGCCAAATTTCCCAAC	2640
Qy	2641	GACCTACATAATCCGAAGAAGCATGCAATGAAAACTAGAAAGCTGGGCACAAAACCTTACTA	2700
Db	2641	GACCTACATAATCCGAAGAAGCATGCAATGAAAACTAGAAAGCTGGGCACAAAACCTTACTA	2700
Qy	2701	GAGATGATTTTGTAGCTCATTTAAACTGATGCTCTGAAATGTGATCAAAATCAACCAGAAAT	2760
Db	2701	GAGATGATTTTGTAGCTCATTTAAACTGATGCTCTGAAATGTGATCAAAATCAACCAGAAAT	2760
Qy	2761	AACAAACAAAGAGCTGGATTTGGCAATTAGACAAGTATTTAGAAATCACTGSTATTAACAG	2820
Db	2761	AACAAACAAAGAGCTGGATTTGGCAATTAGACAAGTATTTAGAAATCACTGSTATTAACAG	2820
Qy	2821	CTGTCACTCTAAATTTAAAATATAGTGTCTATTTTAGCTGCCTATTTAAGATTTAAACACAAGA	2880
Db	2821	CTGTCACTCTAAATTTAAAATATAGTGTCTATTTTAGCTGCCTATTTAAGATTTAAACACAAGA	2880
Qy	2881	GTGGATTAACCTTCCAAATTTACTGGGCTGTGTTCAATAGAGTAAAAATATCAGTCAATAGA	2940
Db	2881	GTGGATTAACCTTCCAAATTTACTGGGCTGTGTTCAATAGAGTAAAAATATCAGTCAATAGA	2940
Qy	2941	TTAATTATAGTGTCATCAAAAGTATGAGTGTGGAACCCCTTTCCCTTACCTTTTACCTTCAT	3000
Db	2941	TTAATTATAGTGTCATCAAAAGTATGAGTGTGGAACCCCTTTCCCTTACCTTTTACCTTCAT	3000
Qy	3001	TCTTAGTATATATTTTTTTTTTCTTCCACCTCTGATCAAGCCACTAGTAAAGCACTATCTG	3060
Db	3001	TCTTAGTATATATTTTTTTTTTCTTCCACCTCTGATCAAGCCACTAGTAAAGCACTATCTG	3060
Qy	3061	CTGCGAGCTATATATGACTTTACAGCAAAACAACATTCGTGTGTGGCTCTTTTGGGGAAG	3120
Db	3061	CTGCGAGCTATATATGACTTTACAGCAAAACAACATTCGTGTGTGGCTCTTTTGGGGAAG	3120
Qy	3121	GGACAGGATAGCAGGAGGCTCAGGCTAGCAAGTCTGGACTCAACCTTAAAGCCAGAGGCA	3180
Db	3121	GGACAGGATAGCAGGAGGCTCAGGCTAGCAAGTCTGGACTCAACCTTAAAGCCAGAGGCA	3180
Qy	3181	TGGTTGATAGCAGAAAGTGAGGCTCTTCCAAAGTGGGTGCTTAAGTAATCAGAAAC	3240
Db	3181	TGGTTGATAGCAGAAAGTGAGGCTCTTCCAAAGTGGGTGCTTAAGTAATCAGAAAC	3240
Qy	3241	AGGAAGGCTCTGGTTGATGGAATTTATCAGTAAGATATCTACCCCTTATCTCCTTCTCTAT	3300
Db	3241	AGGAAGGCTCTGGTTGATGGAATTTATCAGTAAGATATCTACCCCTTATCTCCTTCTCTAT	3300
Qy	3301	AGAAGCTTAAACCGTCTCTCTTCTTGTGTAGGCTGATTAACAACGCTTGTCTTTCTTTG	3360
Db	3301	AGAAGCTTAAACCGTCTCTCTCTTCTTGTGTAGGCTGATTAACAACGCTTGTCTTTCTTTG	3360
Qy	3361	AGTCTTCATCGCTTTGAGATTTTTTCAAGTCTGCCAGTCTTGTGTAGAGGTTTGTTC	3420
Db	3361	AGTCTTCATCGCTTTGAGATTTTTTCAAGTCTGCCAGTCTTGTGTAGAGGTTTGTTC	3420
Qy	3421	CTTGACACCTGGGCTTGGATGTTAGCATGCCAAAGGCACACATCTCTGAATGCCTGTGTA	3480
Db	3421	CTTGACACCTGGGCTTGGATGTTAGCATGCCAAAGGCACACATCTCTGAATGCCTGTGTA	3480
Qy	3481	AAAGGTTATTATTCATTTACTTTTGTGTAAGAGGTGAAGTGTGTGTGAGAAAGAACTC	3540
Db	3481	AAAGGTTATTATTCATTTACTTTTGTGTAAGAGGTGAAGTGTGTGTGAGAAAGAACTC	3540

Qy	3541	ACAGGAGATGTATTCTCTGTAGAAAACCTTTTTTTTCCCTTAAAAAGCCTATAATCCACT	3600
Db	3541	ACAGGAGATGTATTCTCTGTAGAAAACCTTTTTTTTCCCTTAAAAAGCCTATAATCCACT	3600
Qy	3601	TTCAGTCAACTTTTGACTTTTATACCATCGTGCACATGAAGAAGTGTATTAGGCCCGCTCT	3660
Db	3601	TTCAGTCAACTTTTGACTTTTATACCATCGTGCACATGAAGAAGTGTATTAGGCCCGCTCT	3660
Qy	3661	CGTGGCTCTGGGAAAGCACCAATAGGGGAAGAAATGTTATGCGGAGAAATCTGACTGGC	3720
Db	3661	CGTGGCTCTGGGAAAGCACCAATAGGGGAAGAAATGTTATGCGGAGAAATCTGACTGGC	3720
Qy	3721	AGGGAACCTGGGTCCAGAGCTCCCCAAGACCCTACAGGTGTTAAGTAGGAAACAGTCGAG	3780
Db	3721	AGGGAACCTGGGTCCAGAGCTCCCCAAGACCCTACAGGTGTTAAGTAGGAAACAGTCGAG	3780
Qy	3781	GSTGGGTTCATATAATAGANTGAACAGAGGGAGGNAAGTAAGCTACAAGTTTTCATAG	3840
Db	3781	GSTGGGTTCATATAATAGANTGAACAGAGGGAGGNAAGTAAGCTACAAGTTTTCATAG	3840
Qy	3841	GGTCTTAAGTCTTTAAGATACAAAATAGCTGGTGGCTTCATAAACAAAGAAAGTCTGGG	3900
Db	3841	GGTCTTAAGTCTTTAAGATACAAAATAGCTGGTGGCTTCATAAACAAAGAAAGTCTGGG	3900
Qy	3901	AAGGCACGAAGCAITGAGAGGGAGATGGAAAGGGAAGAAAAAACAATGTAGAGGATTTGAAAA	3960
Db	3901	AAGGCACGAAGCAITGAGAGGGAGATGGAAAGGGAAGAAAAAACAATGTAGAGGATTTGAAAA	3960
Qy	3961	GCTACAAATCTCCAAGAGGATTTTCTTGGAGGAATCTAGAAACNAGGGTGGTGGATT	4020
Db	3961	GCTACAAATCTCCAAGAGGATTTTCTTGGAGGAATCTAGAAACNAGGGTGGTGGATT	4020
Qy	4021	AGTGGATCGCAAGAGACTTGTCTTGCCATTGTAATCTGGGTTTTGTCTCTCCATTGA	4080
Db	4021	AGTGGATCGCAAGAGACTTGTCTTGCCATTGTAATCTGGGTTTTGTCTCTCCATTGA	4080
Qy	4081	GGTTGAGAGCGTCAACCCCTTTTTACCTGGATAGGAGGAGAAAGAGGCTGTTTTGAC	4140
Db	4081	GGTTGAGAGCGTCAACCCCTTTTTACCTGGATAGGAGGAGAAAGAGGCTGTTTTGAC	4140
Qy	4141	TCCTACTGGAGTTTTACTAGTTTACGCAATGGAACAGACACTCGGACCTCTCTTGAC	4200
Db	4141	TCCTACTGGAGTTTTACTAGTTTACGCAATGGAACAGACACTCGGACCTCTCTTGAC	4200
Qy	4201	AAGAAAAAAGAAAAAGAAAAAGCAACCTGTGTTTTCTCTGTTGTTCTTTGTTTAAGAAA	4260
Db	4201	AAGAAAAAAGAAAAAGAAAAAGCAACCTGTGTTTTCTCTGTTGTTCTTTGTTTAAGAAA	4260
Qy	4261	GCACAGCAGCTGGGCATGTGGCCCATGCTTTAATCCCAGCAITTTGGGAGGCAGAGGC	4320
Db	4261	GCACAGCAGCTGGGCATGTGGCCCATGCTTTAATCCCAGCAITTTGGGAGGCAGAGGC	4320
Qy	4321	AGTGACTTTCTAAATTCAGGCGCAGCTGGTCTACAAAGTAGTTCAGGACAGCCAGG	4380
Db	4321	AGTGACTTTCTAAATTCAGGCGCAGCTGGTCTACAAAGTAGTTCAGGACAGCCAGG	4380
Qy	4381	GCTATACAGAGAAACCTGTCTCGGGAAGAAAAAAGAAAGAAAGAAAGAAAGAAAG	4440
Db	4381	GCTATACAGAGAAACCTGTCTCGGGAAGAAAAAAGAAAGAAAGAAAGAAAGAAAG	4440
Qy	4441	AGAAGAGGAGAGAGAGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	4500
Db	4441	AGAAGAGGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	4500
Qy	4501	AGGAGAGGAG	4560
Db	4501	AGGAGAGGAG	4560
Qy	4561	AAGAAA	4620
Db	4561	AAGAAA	4620
Qy	4621	AGAAAAAGAAAAAGCAAGCAACCTGGCAAGCATGCCCAATGGGAGCTATGTG	4680

Db 4621 AGAAAAAGAAAAAGCAAGCAAGCACTGGCAAGCATGCCACATGGGAGCTATGTG 4680
Qy GGTCTTTGAGACAAGGCTTTTGAATTGAGGCTCATCAATAGTTGATCATGGTCAGGTGG 4740
Db GGTCTTTGAGACAAGGCTTTTGAATTGAGGCTCATCAATAGTTGATCATGGTCAGGTGG 4740
Qy AGGCTACCTGTGAGGCGGAGCCCTGCTGGCTTAGCACTTAAACATCTCCAGGTCCTCAGTA 4800
Db AGGCTACCTGTGAGGCGGAGCCCTGCTGGCTTAGCACTTAAACATCTCCAGGTCCTCAGTA 4800
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Db TGTGCATTTGTCGCAAGGTTCAATAAGGTAGATCAATAGGCCCATCAACAGCTTTTATGGGTG 4980
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Qy TTTTAGAGAGGCTGATCTTGGTTTGGTCTCAGCAAGCAATGTCCAGGCTCTTTC 5160
Db TTTTAGAGAGGCTGATCTTGGTTTGGTCTCAGCAAGCAATGTCCAGGCTCTTTC 5160
Qy TAACTAGTACCACTTTAGAAAAATGCTACCCGTGCTCAAAATGGTTGATTTCTTATTTTC 5220
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Db GCCTTCTAAAAAGAACCAATAAGATCCCTGAAATGGACTTTTTTACTAAAGGAAAGTGAGAA 5400
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Db GCTAACGTCACCATCATTTAGAGATTTCAATGAAACCTGGCTCAGTTGAAAGAGAAAA 5460
Qy TAGTGTCAAGTTGTCCATGACACGAGGTAGACTTGATACCAACCAAGATTCAATGACA 5520
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Qy ATATGGATTTATTTATAGAAAAATTTATCTGATGTTGATATTTGAGTATAAAAAGCAATAAT 5760
Db ATATGGATTTATTTATAGAAAAATTTATCTGATGTTGATATTTGAGTATAAAAAGCAATAAT 5760

RESULT 2

US-10-627-273-29
; Sequence 29, Application US/10627273
; Publication No. US20040110189A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: (TIFS) The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/10/627,273
; CURRENT FILING DATE: 2003-07-25
; PRIOR APPLICATION NUMBER: US/09/751,797
; PRIOR FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 29
; LENGTH: 5935
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-10-627-273-29

Query Match 100.0%; Score 5935; DB 7; Length 5935;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 5935; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 181 CTATGCTTAAAAATGCTATTAGATTGTTCACTAGCAATTTCCAAACTTAACCTGACCT 240
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Db 241 TGGCTATGATTTCAACCTTTGTTATTTGCATCTACCAATGCTGTGCTCACTTACCATGC 300
Qy 301 TATCCGAGCAGCATGTTCCCTGATGTTTGGCTTTTGGCTCTCTCGTAAACAGGCTCTC 360
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Qy 361 CTCTCAGTTATCAACTTTTGAACACTTTGCGATCGGTGATGGCTGTCTCGAGAAATCTA 420
Db 361 CTCTCAGTTATCAACTTTTGAACACTTTGCGATCGGTGATGGCTGTCTCGAGAAATCTA 420

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901 GGACATACATCTACTTACAGGCTTTTCTTCCATCTCTCTGCTACTCTCTGAGACCCACTGC 960
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1321 TCCTCTCTATTTCCAGTAAGAACCCGAGGTCCTGCTCTCTCTCTCTCTCTCTCTCTCT 1380
1381 AGGCGCTCAGCACCCACCATCATAGGCCACTTGAATAGGTCAACAAGGCTTTGGCTT 1440
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1621 GAGTCCAAAGTACTTGTGTTGGAGAGAAATCCACTGAGTACAAGTACTTGTGGGGGAGGAA 1680
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1741 TGAAAGGTCACTCTCTTTTCCATGTTGATGGAGAGTTAAGAAATAACAGTGTGTGAGTTG 1800
1801 ATGCTCTTCAGACACCCCAACTATGGCAGACTGTGGGAGACCTGGCATTTAGGGAAGCGC 1860
1801 ATGCTCTTCAGACACCCCAACTATGGCAGACTGTGGGAGACCTGGCATTTAGGGAAGCGC 1860
1861 GGCTTTTCAACGAGAAACTTTATGCTCATCTCTGTGTCTACACTCCCACTTTGATGAG 1920
1861 GGCTTTTCAACGAGAAACTTTATGCTCATCTCTGTGTCTACACTCCCACTTTGATGAG 1920
1921 GTTAAAGTCAGGTTTCTGTTTCTACCGTTCTTGTCTACTGTGTGAAACTTCAAGTAGGATTC 1980
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1981 CCAAGACAGGAGACAGCTCTCTCTGTAAGGAGGAGCTGGATTTCAAGTGTCTTAGAGAAC 2040
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2281 AGCCCAATATCAAGCCATTCAGTAGGAGACGTGGGGATTTCTTCTCTGCTTCCAGT 2340
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2341 CTCCTCTACTTTGTAAACATTTCTTTGACTGTGTCTGCTGCTGCTGCTGCTGCTGCTGCT 2400
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2401 CTCACCTGCTATGCTGGGTCTATAGATCTTTTCAATCTGTCTGCTGCTGCTGCTGCTGCTGCT 2460
2461 CAATTCTGAGCTAGCAGAAAGCTTAGCTCAGCAGCTCTCATGAGCACTTGTCTCGGAGGA 2520
2461 CAATTCTGAGCTAGCAGAAAGCTTAGCTCAGCAGCTCTCATGAGCACTTGTCTCGGAGGA 2520
2521 TGGCTTGTGACAGAGTCAATGCTTAGAGACAGCATCCCTGATTTCCAGCTCTGCATTCG 2580
2521 TGGCTTGTGACAGAGTCAATGCTTAGAGACAGCATCCCTGATTTCCAGCTCTGCATTCG 2580
2581 CTAGTGGCCACGTGTAAATTACTTTAGCTGATTAAAGTATTGGAAGAAACCAATTTCCACC 2640

Db	2581	CTAGTGGCCACGCTGTAATTAATTAGCCTGATTAAGTATTTGGGAAAGCCAATTTCCACCC	2640
Qy	2641	GACCTACATAATCGGAAGAGCATGCAATTGAAACTAGAAAGCTGGGCACAAACTTACTTA	2700
Db	2641	GACCTACATAATCGGAAGAGCATGCAATTGAAACTAGAAAGCTGGGCACAAACTTACTTA	2700
Qy	2701	GAGATGATTTTGGAGCTCATTAATACTGATGCTCTGAAATGTGATCAAAATCAACCAGAAAT	2760
Db	2701	GAGATGATTTTGGAGCTCATTAATACTGATGCTCTGAAATGTGATCAAAATCAACCAGAAAT	2760
Qy	2761	AACAAAGAGAGCTGGATTTGCAAAATAGCAACAGTATTTAGAAATCACTGGTATTAACAG	2820
Db	2761	AACAAAGAGAGCTGGATTTGCAAAATAGCAACAGTATTTAGAAATCACTGGTATTAACAG	2820
Qy	2821	CTGTCATCTTAATTAATAATAGTGTCTATTTAGCTGCTCTATTTAAGATTAAACACAAAGA	2880
Db	2821	CTGTCATCTTAATTAATAATAGTGTCTATTTAGCTGCTCTATTTAAGATTAAACACAAAGA	2880
Qy	2881	GTGGATAACTTCCCAATTTACTGGGCCCTGGTTTCAATAGAGTAAATAATATCAGTCAATAGA	2940
Db	2881	GTGGATAACTTCCCAATTTACTGGGCCCTGGTTTCAATAGAGTAAATAATATCAGTCAATAGA	2940
Qy	2941	TTAATTATAGTGTCAATGAAAGTATGAGTTGGAAACCTTTCTCTTACCTTTTACCTTCATT	3000
Db	2941	TTAATTATAGTGTCAATGAAAGTATGAGTTGGAAACCTTTCTCTTACCTTTTACCTTCATT	3000
Qy	3001	TCCTTAGTATTAATTTTCTTCTCACCCTGATCAAGCCACTAGTAAGCACCTATCTG	3060
Db	3001	TCCTTAGTATTAATTTTCTTCTCACCCTGATCAAGCCACTAGTAAGCACCTATCTG	3060
Qy	3061	CTGGCGAGCTATTATGACTTTTACAGCAAAACAAATTTGCTGTGGGCTCTTTGGGGAAG	3120
Db	3061	CTGGCGAGCTATTATGACTTTTACAGCAAAACAAATTTGCTGTGGGCTCTTTGGGGAAG	3120
Qy	3121	GGAAACAGGATAGCAGGAGGCTCAGGCTAGCAAGTCTGGAACCTTAAGGCCAGAGGCA	3180
Db	3121	GGAAACAGGATAGCAGGAGGCTCAGGCTAGCAAGTCTGGAACCTTAAGGCCAGAGGCA	3180
Qy	3181	TGGTTGATAGCAGAAAGTGAGGCTCTTCAACAGTGGGTGCTTAAGTAATCAGAAAC	3240
Db	3181	TGGTTGATAGCAGAAAGTGAGGCTCTTCAACAGTGGGTGCTTAAGTAATCAGAAAC	3240
Qy	3241	AGGAAGGCTCTGGTTGATGGAATTAATCAGTAAGATATACCCCTATCTCTCTCTCTAT	3300
Db	3241	AGGAAGGCTCTGGTTGATGGAATTAATCAGTAAGATATCTACCCCTATCTCTCTCTCTAT	3300
Qy	3301	AGAAAGCTAAACCGTCT	3360
Db	3301	AGAAAGCTAAACCGTCT	3360
Qy	3361	AGTGTTCATGGCTTTGAGATTTTTCAGTGTCTCCAGTCTCTCTCTCTCTCTCTCTCT	3420
Db	3361	AGTGTTCATGGCTTTGAGATTTTTCAGTGTCTCCAGTCTCTCTCTCTCTCTCTCTCT	3420
Qy	3421	CTTCAGACCTGGGCTTGGATGTTAGATGTCGCAAGGCAACACTTCTGAAATGCCTGTGTA	3480
Db	3421	CTTCAGACCTGGGCTTGGATGTTAGATGTCGCAAGGCAACACTTCTGAAATGCCTGTGTA	3480
Qy	3481	AAAGGTTATTAATTTCAATTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	3540
Db	3481	AAAGGTTATTAATTTCAATTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	3540
Qy	3541	ACAGGATGTAATTTCTCTGTAGGAAACCTTTTCTCTCTCTCTCTCTCTCTCTCTCT	3600
Db	3541	ACAGGATGTAATTTCTCTGTAGGAAACCTTTTCTCTCTCTCTCTCTCTCTCTCTCT	3600
Qy	3601	TTCAAGTCACTTTGACTTTTATACCATGCTCTCATGAAAGAGTGTGAGGAGGAGGAG	3660
Db	3601	TTCAAGTCACTTTGACTTTTATACCATGCTCTCATGAAAGAGTGTGAGGAGGAGGAG	3660
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Db	3661	CGTGGCTCTGGGAAAGCAACCAATAGGGGAGAAATGTTATGCCGAGAAATCTGACTGGC	3720
Qy	3721	AGGGAACCTGGCTCAGAGCTCCCAAGACCACTACAGGTGTTAAGTAGGAACAGTCCAG	3780
Db	3721	AGGGAACCTGGCTCAGAGCTCCCAAGACCACTACAGGTGTTAAGTAGGAACAGTCCAG	3780
Qy	3781	GGTGGGTTTCATATAATAGAAATGGAAACAGAGGGAGGAGATAGCTACAAAGTTTCATAG	3840
Db	3781	GGTGGGTTTCATATAATAGAAATGGAAACAGAGGGAGGAGATAGCTACAAAGTTTCATAG	3840
Qy	3841	GGTCTTAAGTCTTTAAGATACAAAATAGCTGGTGGCTTTCATAACAAAGAAAGTCTGGG	3900
Db	3841	GGTCTTAAGTCTTTAAGATACAAAATAGCTGGTGGCTTTCATAACAAAGAAAGTCTGGG	3900
Qy	3901	AAGCAGCAAGCAATTCAGAGGGAGATGGAAGGGAAGGAAACAAATGTAGAGGATTTGAAA	3960
Db	3901	AAGCAGCAAGCAATTCAGAGGGAGATGGAAGGGAAGGAAACAAATGTAGAGGATTTGAAA	3960
Qy	3961	GCTACAAATCTCCACAGAGGATTTTTCTTGGAGGAATCTAGAAACAAAGGTTGTGGATT	4020
Db	3961	GCTACAAATCTCCACAGAGGATTTTTCTTGGAGGAATCTAGAAACAAAGGTTGTGGATT	4020
Qy	4021	AGGTGGATCCAGAGGACTTGTCTTGGCCATTTGAATCTGGGTTTTTGTCTCTCCATTGA	4080
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Qy	4081	GGTTAGAGCGTCAACCTTTTTTACCTGGATAGGAGGAGAAAGAGGGGTGTTTTGAC	4140
Db	4081	GGTTAGAGCGTCAACCTTTTTTACCTGGATAGGAGGAGAAAGAGGGGTGTTTTGAC	4140
Qy	4141	TCCTACCTGAGTTTACTAGTTTACGCAATGGAAACAGACACTCGGACCTCTCTCTTGAC	4200
Db	4141	TCCTACCTGAGTTTACTAGTTTACGCAATGGAAACAGACACTCGGACCTCTCTCTTGAC	4200
Qy	4201	AAGAAAAAAGAAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG	4260
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Qy	4321	AGGTGACTTTCTAAATTCAGAGCCAGCTGGTCTTACAAAGTGAATTCAGGACAGCCAGG	4380
Db	4321	AGGTGACTTTCTAAATTCAGAGCCAGCTGGTCTTACAAAGTGAATTCAGGACAGCCAGG	4380
Qy	4381	GCTATACAGAAACCTCTGCTCGGAAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAA	4440
Db	4381	GCTATACAGAAACCTCTGCTCGGAAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAA	4440
Qy	4441	AGAAAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAG	4500
Db	4441	AGAAAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAG	4500
Qy	4501	AGGAGAGGAG	4560
Db	4501	AGGAGAGGAG	4560
Qy	4561	AAG	4620
Db	4561	AAG	4620
Qy	4621	AGAAAGAAAAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG	4680
Db	4621	AGAAAGAAAAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG	4680
Qy	4681	GGTCTTTGAGCAAGGCTTTTGAATTTGAGCGCTCATCAATAGTTGATCATGGTCAGGTGG	4740
Db	4681	GGTCTTTGAGCAAGGCTTTTGAATTTGAGCGCTCATCAATAGTTGATCATGGTCAGGTGG	4740
Qy	4741	AGGGCTACCTGTGAGGCGGAGCCCTGTGGCTTACCAATAGCAATCTCCAGGCTCTCAGTA	4800
Db	4741	AGGGCTACCTGTGAGGCGGAGCCCTGTGGCTTACCAATAGCAATCTCCAGGCTCTCAGTA	4800

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Db 5221 ATAGCTTGGAGAGCGGAGAGATCAAGCGATCGGGGACTGGACCTGCTGTTATGTC 5280
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QY 5401 GCTAAAGTCCACCATCATATAGAGATTTTCATGAAACCTGGCTCAGTTCAAGAGAAAA 5460
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QY 5821 TAAATCTTCTGCTGTGTAATTTTCTCCCTTAAATATCAACAATACCATCATCGTATCA 5880
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QY 5881 TTACCCAATCATTTCTCATGACTTCATGCTTACATATATATCTGTTAAAGTTTG 5935
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RESULT 3
US-09-751-797-8
; Sequence 8, Application US/09751797
; Patent No. US20010024652A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; FILE OF INVENTION: (Tifs) The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/09/751,797
; CURRENT FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 8
; LENGTH: 7445
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-751-797-8
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Query Match 71.5%; Score 4245.2; DB 3; Length 7445;
Best Local Similarity 88.3%; Pred. No. 0;
Matches 5039; Conservative 0; Mismatches 178; Indels 487; Gaps 20;

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Db 1971 TACCATGCTATCCGAGCAGCATGTCCTCCCTGATGTTTGGCTTTTGGCTCTCTCGCTAAC 2030
QY 353 AGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCTCTGCA 412
Db 2031 AGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCTCTGATGCTGTCTCTGCA 2090
QY 413 GAAATCTATGAGTTTTTCCCTTTATGGGACTTTTGGCGCCAGCTGCTCTCTCATATGC 472
Db 2091 GAAATCTATGAGTTTTTCCCTTTATGGGACTTTTGGCGCCAGCTGCTCTCTCATATGC 2150
QY 473 CCGTGGGCGCCAGGAGCAAAATGCGCTGCCATCAACACCCGGTGCAAGCTTCGAGGTGC 532
Db 2151 CCGTGGGCGCCAGGAGCAAAATGCGCTGCCCGCTCAACACCCGGTGCAAGCTTCGAGGTGC 2210
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Db 2211 CAACCTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAAGGAGGTACAGCT 2270
QY 593 GCATCTCTTCTCTCATACCCGCTTTGCCA - TTTCTCTGAAGCACTTGGAAAATCTTTTAG 651
Db 2271 GCATCTCTTCTCTCATACCCGCTTTGCCAATTTCTCTGAAGCACTTGGAAAATCTTTTAG 2330
QY 652 GGGCGCTTTATCTCCGAGGTCTCACTACCTATGTTTCTGCTCTTTTAGAGACTCTTTA 711
Db 2331 GGGCGCTTTATCTCCGAGGTCTCACTACCTATGTTTCTGCTCTTTTAGAGACTCTTTA 2390
QY 712 AGGACTGGATCTTTTCTATTTCTATTTTCAAGGTCTCAGGACCATTTTCTATCTTGGCCT 771
Db 2391 AGGACTGGGTCTTTTCTATTTCTATTTTCAAGGTCTCAGGACCATTTTCTATCTTGGCCT 2450
QY 772 TCAGGACACATATACCTGAATTTTATCTACAGGCGGGTTTGAAGCCACCCACGACTG 831
Db 2451 TCAGGACACATATACCTGAATTTTATCTACAGGCGGGCATTTGAAGCCACCCACGACTG 2510
QY 832 CAAATCTTCCATCTCTGTTGCTCTCTTCTTGAATCATCTCTCTTGGCTACTCTCTGAG 891
Db 2511 CAAATCTTCCATCTCTGTTGCTCTCTTCTTGAATCATCTCTCTTGGCTACTCTCTGAG 2570
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Qy 2571 ACCCACTGGGACATACATCTCTACTTACAGGCTTTTCTTCCATCTCCTTGTCAACCAGG 2630
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Qy 2631 CACTTAGGGTTTTCTCTCTTTTCAGGCCAGCCTTGCAGATAACAACAACAGAGCTCCGGCTC 2690
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Qy 3236 GAAACAGGAAGGCTCTGGTTCATGGAATATACAGTAAGATATCTACCCCTTATCTCCTTCT 3295
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Qy 4313 GCAGAGCGAGGTGACTTTCTTAAATTCAGGCCAGCCCTGTTTACAAAGTGAGTTCCAGGA 4372
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Qy 4373 CAGCCAGGCTATACAGAGAAACCTTGTCTCGGGAAAAAAGAAAAAAGAAAAAAGAAAAAG 4432
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Qy 4553 GAA 4612
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Qy 4673 CGTATGTGGGTCTTTGAGACAAGGCTTTTGAATTTGAGCGCTCATCAATAGTTGATCATGG 4732
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Qy 4973 TATGGGTGTGAATGCAAGTAAATATAGGTAGATCCCTGT- GTGCTCTTAGGTGAGAAAGG 5031
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Qy 5092 TTATCAATCTTTTAGAGAGGCTGATCTTTGGTTTTGGTGTCTCAGCAAGCAAAATGTCAAC 5151
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Db 6466 AGCTCTTTCTAACTAGTACCACTTTAGAAAAATGCTACCTGCTGCTCAAAATTTGGTTGATTT 6525

[illegible]

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2276	Qy	TTGGCAAGCCACAAATACTAAGCCATTCAGTAGAGACGTGGGATTTCTTTCTCTGCTTC	2335
4003	Db	TTGGCAAGCCACAAATACTAAGCCATTCAGTAGAGACGTGGGATTTCTTTCTCTGCTTC	4062
2336	Qy	CCAGTCTCTCTACTTTTGTGAACAATTTTCTTTGACTTGTCTACTGTCGTGCCATTAATCA	2395
4063	Db	CCAGTCCCTTCTACTTTTGTGAACAATTTTCTTTGACTTGTCTACTGTCGTGCCATTAATCG	4122
2396	Qy	CTTAGCTGCACTGCACTTAGCTGGGTCTATAGATCTTTCAATCTGTGTCTAAATTTGTA	2455
4123	Db	CTTAGCTGCACTGCACTTAGCTGGGTCTATAGATCTTTCAATCTGTGTCTAAATTTGTA	4182
2456	Qy	AGTCACAAATCTGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCACTTGCTCG	2515
4183	Db	AGTCACAAATCTGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCACTTGCTCG	4242
2516	Qy	GAGGATGGCTTGTGAACGAGTCAATGCTAGAGACAGCATCCCTGATTTCCAGCTCTGCA	2575
4243	Db	GAGGATGGCTTGTGAACGAGTCAATGCTAGAGACAGCATCCCTGATTTCCAGCTCTGCA	4302
2576	Qy	CTTGCCCTAGTGGCCACGTGTAATTTACTTTTAGCCCTGATTAAGTATTTTGGGAAAGCCAAATTC	2635
4303	Db	CTTGCCCTAGTGGCCACGTGTAATTTACTTTTGGCTTGATTAAGTATTTTGGGAAAGCCAGTTC	4362
2636	Qy	CCACCGACCTACATAATCCGAGGAAGCATGCTATTGAAAGCTAGAAAGCTGGGCACAAACT	2695
4363	Db	CCACCGACCTACATAATCTGAAGAACCATGCAATTTGAAGCTAGAAAGCTGGGCACAAACT	4422
2696	Qy	TACTAGAGATGATTTTGTAGCTCAATTAACCTGATGCTCTGAATGTGATCAATCAACCC	2755
4423	Db	TACTAGAGATGATTTTGTAGCTCAATTAACCGGATGCTCTGAATGTGGCAAAATCAACCC	4482
2756	Qy	AGAAACACAAAGAGCTGGATTTGCAAAATAGGACAGTATTTAGAATCACTGGTATT	2815
4483	Db	AGAAACACAAAGAGCTGGATTTGCAAAATAGGACAGTATTTAGAATCACTGGTATT	4542
2816	Qy	AACAGCTGTCATCTTAATTAATAATAGTGTCTATTTAGCTGCTATTTAAAGATTAAACA	2875
4543	Db	AATAGCTATCATCTTAAATTAATAATAGGCGCTATATA----TATATTTAAGATTAAACA	4598
2876	Qy	CAAGAGTGGATAACTTCCCAATTTACTGGCCCTGGTTTCAATAGATGATAAAATATCAGTC	2935
4599	Db	CAAGAGTGGATAGCCTCCCAATTTACTTGCCCTGGTTTCAAAAGAGTAAATAATCAGTC	4658
2936	Qy	ATAGATTATTAATAGTGTCAATGAAGCTATGAGTTGGAAACCCCTTCTCTACTTTTACCT	2995
4659	Db	ATGGATTAAATTAATGATGTCATGAAGATGATGAGATGGAAACCCCTTCTCTACTTTTACCT	4718
2996	Qy	TCATTTCTTAGTTATATTTTTTTTTCTTCACACCCCTGATCAAGCCACTAGTAAGCACCT	3055
4719	Db	TCATTTCTTAGT-----TTTTTTTTTCTTCACACCCCTGATCAAGCCACTAGTAAGCACCT	4773
3056	Qy	ATCTGCTGGAGCTATTATATGACTTTACAGCAAAACAATGCTGTGTGGCTCTTTGG	3115
4774	Db	ATCTGCTGTGAGCTATTATATGACTTTACAGCAAAACAATGCTGTGTGGCTCTTTGG	4833
3116	Qy	GGAAAGGAAACAGATAGCAGGAGGCTCAGGCTAGCAAGTCTGGACTCAACCTTAAGCCAG	3175
4834	Db	GGAAAGGAAACAGATAGCAGGAGGCTCAGGCTAGCAAGTCT--GACTTGGCCCTTAAGCCAG	4892
3176	Qy	AGGCATGGTTGATAGCAGAGAAAGTAGGCTCTTCAAGTGGGTGCTGCTTAAGTAATCA	3235
4893	Db	AGGCATGGTTGATAGCAGAGAAAGTAGGCTCTTCCCAAGTGGGTGCTGCTTAAGTAATCA	4952
3236	Qy	GAACACGAGAGGCTCTGGTTGTAGTGAATTAATCAGTAAGATATCATCCCTTATCTCCTTCT	3295
4953	Db	GAACACGAGAGGCTCCGGTTGTAGTGAATTAATCAGTAAGATACTACCCCTTATCTCCTTCT	5009
3296	Qy	TCATATAGAGCTAAACCGTCTCTCTTTCTGTGTGTAGGCTGATAAACAACGCTGTGTTTTTC	3355
5010	Db	TCTATCGAAGCTTAATCGTCTCTTTTTCTGTGTGTAGGCTGATAAACAACACTTGTGTTTTTC	5069

Qy	3356	TTTTGAGTGTTCATGGCTTTGCAGATTTTCAGTCTCTGCCAGTTCCTTGTGTAGAGGTTTT	3415
Db	5070	TTTTGAGTGTTCATGGCTTTGTAGATTTTGTAGTGTCTGCGAGTTCTTTGTAGAGGGTTTT	5129
Qy	3416	GTTCACCTTGACACCTGGGCTTGGATGTGTAGCATGCCAAAGGCACACACTTCTCAATGCCT	3475
Db	5130	GTTCACCTTGACACCTGGGCTTGGATGTGTAGCATGCCAAAGGCACACACTTCTCAATGCCT	5189
Qy	3476	GTGTAAAGGTTATTATTTCATTTTACTTTTGTCTTTGGAAAGGTGAAGTGTGTGAGAAAG	3535
Db	5190	GTGTAAAGGTTATTATTTCATTTTACTTTTGTCTTTGGAAAGGTGAAGTGTGTGAGAAAG	5249
Qy	3536	AACTCAGGAGATGTATTCTCTGTAGGAAAC--TTTTTTTTTCCCTTTAAAGCCCTATAA	3594
Db	5250	AACTCAGGAGATGTATTCTCTGTAGGAAACCTTTTTTTTTTCCCTTTAAAGCCCTATAA	5309
Qy	3595	TCCACTTTCAGTCAACTTTGACCTTTTATACATGCTGTCTCATGAAAGAGTGTGTAGGCC	3654
Db	5310	TCCACTTTCAGTCAACTTTGACCTTTTATACATGCTGTCTCATGAAAGAGTGTGTAGGCC	5369
Qy	3655	CGCTCTGTGGCTCTGGGAAAGACCAATAGGGGAGAAATGTTATGCCGAGAAATCTG	3714
Db	5370	CGCTCTCATGGCTCTGGGAAAGACCAATAGGGGAGAAATGTTATGCTGAGAAATCTG	5429
Qy	3715	ACTGGCAGGGAACCTGGGTCAGAGCTCCCCAAAGACCACCTACAGGGTCTTAAGTAGGAACA	3774
Db	5430	ACCGGCAGGGAACCTGGTCAGAGCTCCCCGAGAGACCACCACAGGTGTTAAGTAGGNACA	5489
Qy	3775	GTCAGGGTGGGTTTCATATATAGAAATGGAACAGAGGGAGGAAGATAAGCTCAAAAGTT	3834
Db	5490	GTCAGGGTGGGTCATGTAAATAGAAATGGAACAGAGCGAGGGAAGATAAGCTCAAAAGTT	5549
Qy	3835	TCATAGGGTCTAAGTCTTTAAGNATCAAAATAGCTGGTGGGCTTCATACAAAGGAAG	3894
Db	5550	TCATAGGGTCCGAGTCTTAAAGATACAAATAGCTGCTTGGGCTTCATACAAAGGAAG	5609
Qy	3895	TCTCGGAAGGCAGCAAGCATTTGAGAGGGAGATGGAAGGGAAGAAAAAC--AATGTAGAGGA	3952
Db	5610	TCTCGGAAGGCAGCAAG---TGAGAGGGAATGGAAGGGAAGAAAAACAGAAATGTAGAGGA	5666
Qy	3953	TTTGAAAGCTACAAATCCTCCACGAGAGGATTTTCTTGAGGAATCTAGAACAAAGGTT	4012
Db	5667	CTTGAACAGCTACAAATCCTCTACCAAGCATTTTCTTGGAACAATCTAGAA---GGT	5722
Qy	4013	GGTGGATTAGGTGATCGCAGAGGACTTGTCTTTGCCATTGTGAATCTGGGTTTTGTCTC	4072
Db	5723	AGTGGATTAGGT--GATTTGCAAGGGGACTTGTCTTTGCCATTGTGAATCTGGGTTTTGTCTC	5781
Qy	4073	TCCATTGAGGTTGAGAGCGTCAACCTTTTTTTTACCCTCGATAGGAGGAGGAAGAGGGGT	4132
Db	5782	TCCATTGAGGTTGAGAGCGTCAACCC--TTTTTACCCTCGAATGAGGAGGAGGAAGAGGGGT	5840
Qy	4133	GTTTTGACTCTACCTCGAGTTTTTACTAGTTTACGCAATGGAACAGACACTCGGACCTC	4192
Db	5841	GTTTTGACTCTACCTCGAGTTTTTACTAGTTTACGCAATGGAACAGACACTCGGACCTC	5900
Qy	4193	CTCTTGACAGAAAAAAGGAAACCTGTGTTTCTCTTCTGTTGTTGTTGTTGTTGTTGTTG	4252
Db	5901	CTCTTGAC-----AAAAAAGGAAACCTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG	5950
Qy	4253	TTAAGAAAGCAGGAGCTGGGCATGCTGCGCCCATGCTTTAATCCAGCATTTGGGAG	4312
Db	5951	TTAAGAAAGCAAC-----	5963
Qy	4313	GCAGAGGAGGTGACTTTCTTAAATTTCAAGGCCAGCCTGCTCAAAAGTGTAGTTCCAGGA	4372
Db	5964	-----	5963
Qy	4373	CAGCCAGGCTATACAGAGAAACCTGTCTCGGGAAGAAAAAAGAAAGAAAGAAAG	4432
Db	5964	-----	5963

Db 1282 AGGTTGCGTAA---GATGAGAAAGGTGTGGGAAACATCTAGCTGTGGAAATCGATCCA 1338
 Qy 1619 CTGAGTCCAAGTACTTGTGGGAGAGAAATCCACTGAGTACAGTACTTGTGGGGGAAG 1678
 Db 1339 TTGAGTCTAAGTGTGTTGAGGGGAGGGATGGCATGAGAGAAATTTAGAGAGAAAGTGGG 1398
 Qy 1679 AATGGCAGAGCAAAAGTTCAAGGGAAGAGGAGAGATGAGAGGCGCTCAATGTGGGGG 1738
 Db 1399 AATGGGAAGGCTTAAAGTGG-----GTGGTGGGTGGGCACTGTGGCCCTGTGGA 1450
 Qy 1739 TGTCAAAAGGTCACCTCTTTTCCATGTGATGGAGAGTTAAGAAAAATCAGTGTGTGAGTT 1798
 Db 1451 TGTCAATGGGAGCCACAAAATCGAGGGGTGTGAATTTGATGCCGCTGAACAATTTGAAC 1510
 Qy 1799 TGATGTCTTCAGACACCCCAACTATAGGAGACTGTGGGAGACCTGGGCAATTTAGGGA-AGG 1857
 Db 1511 TATGAAAAAAGTTTGAATGGAGTGGGCCCAAGTAAAAAGGCCCTAGGACCTTACTGAAGAG 1570
 Qy 1858 CGCGGCTTTTACAGGAGAACTTTATGCTCATCTCTGTGCTACACTCCACACCTTTGAT 1917
 Db 1571 GCTTAAATTTTACATGAGATGTTTTATGTACATTTCTTGTCTAAGCATGCAATTTCTG 1630
 Qy 1918 GAGGTAAAGCTCAGGTTTCGTTTCT-----ACCGTTCTTGTCTAC 1956
 Db 1631 GAGATACGATTTGAGGTTTATTCCTTACAGAAATTTGCATAAACTACTCCGCTCTTCCAC 1690
 Qy 1957 TGGTGGAAACTTCATGATGAGTATCCCAAAGACGAGGACAGCTCTTCTGTAAAGGAGGAC 2016
 Db 1691 AAATGCAAACTCAGTAGGATTTCCCAAAGATGAAGAGAGGTCTCTTTGTAAGGAAATGA 1750
 Qy 2017 CTGATTTTCAGTGTCTTAGAGAACAAATAGCTCAGAGAACTTAGGTCAACGCTGAAATCT 2076
 Db 1751 CTGATTTCTGCGGTCTCAAGGGAATTCAGAGCTCAGGAAATCTAGGTCACTGTTTGAATC 1810
 Qy 2077 AGGTACAGCGGGCAAAATGACTGAACGCTCTATTCCAGGTGAAACGGTCACTGCGCTC 2136
 Db 1811 TAGGTCAATTTGGGCAAAATTTACTAAGACTTTAATCCAGGTGAATGTACTGACCTC 1870
 Qy 2137 AGATATACAGGATTTGGGCTCCCAACGGATATAGATTTCTGTTAGTGA-FTCTGCTTTTA 2195
 Db 1871 CATGGGTGTGGGTTTCATAAAGTTTCAGCAACAATTAAGATAGTTATGCTGTTATTG 1930
 Qy 2196 TTTTTCAGCATCAGTGTGACACACAGACATCCAGAAATGTCAGAGGCTGGAAG 2255
 Db 1931 TTTTATAGCATTTGAAGGTGATGACCTGCTATATCCAGAGGAATGTGCAAAAGCTGGAAG 1990
 Qy 2256 AGACAGTGAAGAAAGTACTATTGGCAAGCCCAACAATCTAAGCCATTCAGTAGGAGACGTG 2315
 Db 1991 ACACAGTGAAGAAAGGTAGGACTGATTAACCTGCTCAATGCTAATGCAATAGGAGAGACA 2050
 Qy 2316 GGGATTTCTTCTCTGCTCCAGTCTCTTCT--ACTTTGTAACAATTTCTTCTGACTTGT 2373
 Db 2051 AATGTGTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 2110
 Qy 2374 CTACTGCTGCTGCTTCAATTTACTCATTGCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2433
 Db 2111 CTACACAGGCGGCAAT-----ACTTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2166
 Qy 2434 TCAATCTGCTCTAAATTT---GTAAGTCAACAATTTCTGGAGCTAGCAGAAAGCTTAGCTC 2490
 Db 2167 GATGTCAGTTTCCAAATCTTCCAAATTTAGAAATTTCTAGAACTGGTTGGGATCTTAGCTT 2226
 Qy 2491 AGCCAGTCTCATAGACATCTGCTGGAGGATGGCTTTGTGACAGAGTCAATGCTAGAGAC 2550
 Db 2227 GTCTAGTCACATAACCTCAGATTTCTGGGGATGGTCAAGTGGCAGAGATAGGGCTAGAATGC 2286
 Qy 2551 AGCATCCCTGATTTCCAGCTCTGAC-TTGCTAGTGGCCAGCTGATTAATTTACTTTAGCCT 2609
 Db 2287 AGGTCTCTGAATCCCAAGCAGACACTTTTCCCGTGGTGATACAGATTTAGTTTGGTAC 2346
 Qy 2610 GATTAAAGTATTTGGGAAA--GCCAATTTCCACCGACCTACATAATCCGAAGAGCATGCA 2667

Db 2347 CATTAATTTCTTAGGAAATTTTCAGATTTCTTATTTGACTCATGTATCTGAAGAAGTACTTG 2406
 Qy 2668 TTCAAACTAGAAA---GCTGGGCACAAACTTACTAGAGATGATTTTGTGAGCTCAITAA 2723
 Db 2407 TTTAAAAACAGAAAAATGCTTATGGGCAATTTTATTTGAAGTCAATTTTGAAGTCAITAA 2466
 Qy 2724 ACTGATGCTCTGAAATGTGATCAAAATCAACCCAGAAATAACAAACAAAGAGCTGGATTTGC 2783
 Db 2467 TGCATTTGCTTTGAAACTTGGGAAGATAAACTCAGAACAAATGAGAAAGAGCTGGACTTCG 2526
 Qy 2784 AATAGAGCAAGTATTTAGAAATCACTGGGTATTAACAGCTGTCTATCTTAAATTAATAATAG 2843
 Db 2527 ATATAGGCTTAAATTTCTGGAGTAAATAAACACTTAT-----TTTGAATTTATCATATA 2578
 Qy 2844 TGTCTATTTAGCTCCCTTATTTAAGATTTAAACACAGAGTGGATAACTTCCCAATTTACTG 2903
 Db 2579 TCT---ATCAGATATTGATTTATAGTTTAAAGCAAGAGCAGACAAAC-CCGATCTCTTTT 2634
 Qy 2904 GGCTGTGTTTCAATAGAGTAAAAATATCAGTCAATAGATTAATATATAGTGTCAAGAAATGA 2963
 Db 2635 ATACAGGTTCAATAGAGTAAAAATATTAGTAAGAGATTTATATAGTAAATGGAAGTC 2694
 Qy 2964 TGAGTTGGAACCC---CTTTCCTTATCTTTTTCCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 3020
 Db 2695 TGAATTTGTTAAGCTTTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTT 2754
 Qy 3021 TCTTCAACCCCTGATCAAGCCACTAGTAAGCACCTATCTGTCGAGCTATATATGACT 3080
 Db 2755 CTTTCACTCCCTCAACAAATCCCTAGGAGCATTTATCCATGGTGGCTGGTGTACATTT 2814
 Qy 3081 TTACAGCAAAACAATTTGCTGTGTGGCTCTCTTTGGGGAAGGGAAACAGATATAGCAGGAGGC 3140
 Db 2815 CTATAGTGAATGATACCATCATGTGGCTTATTTGGTGAAAGAAACA--ACAATGGAAGGC 2872
 Qy 3141 TCAGGCTAGCAAGTCTGGACTCAACCTTAAGCCAGAGCATGTTGTATAGCAGAGAAAGT 3200
 Db 2873 TTAGACTTAACAAATAGT-GACTCACCCCAAAACCGAGGGAATGATTTAGGAGCAGTGAAGT 2931
 Qy 3201 GAGGCTCTTCAAGTGGGTGTGCTTAAGTAATCAGAAAAACAGGAAGGCTCTGGTTGATGG 3260
 Db 2932 GAGGCTCTT-GCAAGCAGGTACAACTAAATACTCAGAAACATGAAGGCTCAGTTGATGG 2990
 Qy 3261 AATTATCAGTAAGATATCTACCCCTTATCTCC-----TTCTCTATAGAGCTAAACCG 3313
 Db 2991 AATTTCAGTAACAGCTTAACCTTAATTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3050
 Qy 3314 TCT 3371
 Db 3051 GCGTTTCTTCTGAGCATCATTTAATGAGTGTGACTGTTCTCTCTCTCTCTCTCTCTCTCT 3110
 Qy 3372 CTTTGCAGATTTTTCAGTGTCTCTGCTCTCTGTTGT--TAGAGGTTTGTGTCTTGTGACACC 3429
 Db 3111 CTTTGTAGTTTAAATTTGTGAAGCCAGTCTCTCTTGTATAGAACTATTTATAGACATG 3170
 Qy 3430 TGGGCTTGGATTTAGCATGCCAAAGGCACACATTTCTGAATGCTGTGTAAGGTTAT 3489
 Db 3171 GAGGCTGAAATTTAGCATGCCACAGACAGGCTGCTTTTACATCTCTGCTTAAAAAAT 3230
 Qy 3490 TATTCAATTTACT-----TTGTCTTTGGAAAGTGAAGTGTGTGAGAAAGACTCA 3541
 Db 3231 TACTGATTTCACTTGTCTTGTGTTGTTCTTTAGAAAAAGTGAAGTGTGAGAGAGAAATCTCA 3290

RESULT 6

US-10-627-273-25
 ; Sequence 25, Application US/10627273
 ; Publication No. US20040110189A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Dumoutier, Laure
 ; APPLICANT: Louned, Jamila
 ; APPLICANT: Renaud, Jean-Christophe
 ; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
 ; TITLE OF INVENTION: (Tifs) The Proteins Encoded, and Uses Thereof

Db 1871 CATGGGTGGAGGTTTCATAAAGTTTCAGCACACATTAAGATAGTTATGCTGTATTG 1930
Qy 2196 TTTTGCAGCAGCATCAGTGGTGACGACGAGAACATCCAGAGAATGTGAGAAGGCTGAAGG 2255
Db 1931 TTTTATAGCATATTGAAGGTGATGACCTGCATATCCAGAGGAATGTCAAAAGCTGAAGG 1990
Qy 2256 AGACAGTGAAAAGGTTACTATTGGCAAGCCACAACTACTAAGCCATTCAGTAGGAGACGTG 2315
Db 1991 ACACAGTGAAAAGGTAGGACTGATAACTGTCAATGCTAAGTCAATGCAATAGGAGACAA 2050
Qy 2316 GGGATTTCTTCTGCTGCTCCAGTCTCTTCT--ACTTTGTAAACATTTCTTTGCACTTGT 2373
Db 2051 AATGTGTTTCTTCTCTTCTTCTTCCATCATTGTGATTTTTCACCTGATCTC 2110
Qy 2374 CTACTGCTGTGTCATTTACTCATCTAGTGCACCTGCACTAGCTAGCTGGGTCTATAGATCTT 2433
Db 2111 CTACCACAGGGCGAATT---ACTTTGGTGTCTGTATGTAGATATATCTATATATCTA 2166
Qy 2434 TCAATCTGTGTCTAAATTT---GTAAGTCAAAATTCGGAGCTAGCAGAAAGCTTAGCTC 2490
Db 2167 GATGTGAGTTTCCAAATCTGCAAAATTTGAGAAATCTAGAACTGGTTGGGATCTTAGCTT 2226
Qy 2491 AGCCAGTCTCATGAGCACTTCTCGGAGGATGGCTTGTGACAGAGTCAATGCTAGAAGAC 2550
Db 2227 GTCTAGTCACATACCTCAGATTTCTGGGATGGTCAGTGGCAGAGATAGGGCTAGAATGC 2286
Qy 2551 AGCATCCCTGATCCCAAGCTCTGCAC--TTGGCTAGTGGCCACGTTGTAATTAATCTTTAGCCT 2609
Db 2287 AGGTCTCTGAATCCCAAGCCAGCACATTTCCCGGTGGTGATACAGATTAGTTTGGTAC 2346
Qy 2610 GATTAAGTATTTGGGAAA--GCCAATTTCCCAACCCTACATATATCCGAGAACATGCA 2667
Db 2347 CATTAATTTCTTAGGGAATTTTCAGATTCCTATTGACTCATGATTAATCTGAAGAAGTACTTG 2406
Qy 2668 TTGAAAACCTAGAAA---GCTGGGCACAAACTTACTAGAGATGATTTTGGAGCTCATTA 2723
Db 2407 TTTTAAAACAGAAAATGCGCTATGGGCAATTTATTTGAAGTCATTTTGAAGTCATTA 2466
Qy 2724 ACTGATGCTCGAAATGTGATCAAAATCAACCCAGAAATAACAACAAAGAGCTGGAATTCG 2783
Db 2467 TGCATTTGCTTTGAAACTTGGAAAGATAAATCTCAGAACAAATCAGAAAAGAGCTGGACTTCG 2526
Qy 2784 AAATAGGACAGTATTTAGATATCTGTGATTAACAGCTGTCTCATCTTAATTAATATAG 2843
Db 2527 ATATAGGCTCAATTTCTGGAGTAATAACACTTAT-----TTTGAATTTATCATATA 2578
Qy 2844 TGTCTATTAGTCTGCTATTAAAGATTAAACACAGAGTGGATAACTTTCCCAATTTACTG 2903
Db 2579 TCT---ATCAGATATTGATTATAGTTTAAAGCAAGAGCAGACAAAC-CCCGATCTCTTT 2634
Qy 2904 GGCTGGTTTCAATAGAGTAAATAATACAGTCATAGATTAATATAGTGTGATGAAAGTA 2963
Db 2635 ATACAGGTTCAAAATAGAGTAAATAATATAGTAAGAGATTTATATATAGTTAAATGGAAGTC 2694
Qy 2964 TGAGTTGGAACCC---CTTTCTTACTTTTACCTTCATTTCTTAGTTATTTATTTT 3020
Db 2695 TGAATTGGTAAGCTTTTTTTCTTCTCTCTCCCATCAAGACCTTCCCATTTAGTTTCTT 2754
Qy 3021 TCTTCACACCTGATCAAGCCACTAGTAAGCACCTTATCTGCTGGCAGCTATTATATGACT 3080
Db 2755 CTTTCACTCCCTCAACAAATCCCTAGGAGCAATTTATCCATGGTGGGCTGGTGTACATTT 2814
Qy 3081 TTACAGCAAAACAATTCGTGTGGCTCTTTTGGGGAAGGAAACAGGATAGCAGGAGGC 3140
Db 2815 CTATAGTGAATGATACCATCATGTGGCCTATTTTGGTGAAGAAACA--ACAATGGAAGGC 2872
Qy 3141 TCAGGCTAGCAAGTCTGCACTCAACCTTAAGCCAGGCGATGGTTGATAGCAGGAGAGT 3200
Db 2873 TTAGACTAACAAATAGT--GACTCACCCCAAAACCGGAGGAATGATTTAGGAGCAGTGAAGT 2931
Qy 3201 GAGGCTCTTCAAGTGGGTGCTTAAAGTAAATCAGAAACAGGAAGGCTCTGTTGTATGG 3260

Db 2932 GAGGCTCTT--GCAAGCAGGTACAAATAACTACAGAAAACATGAAGGCTCCAGTTGATGG 2990
Qy 3261 AATTATCAGTAAGATATCTACCTTATCTCC-----TTCTTCTATAGAAGCTAAACCG 3313
Db 2991 AATTTTCAGTAACAAGCTTAACTTAATCCCCCTTTTCCCTCTTGCATCTTTTAAAAA 3050
Qy 3314 TCTCTCCTTCTTGTGTGTAGGCTGATAAACACACGCTTGT--TTCTTTTGAAGTTTCATGG 3371
Db 3051 GCGTTTCTTCTGAGCATCATTTAATGAGTGTGACTGTCTTCTCTTTTGATAATTGAAGG 3110
Qy 3372 CTTTGCAGATTTTCAGTGTCTGCGAGTCTTGT--TAGAGGTTTGTATTACCTTGACACC 3429
Db 3111 CTTTGTAGTTTAAATTTGTAAGCCCAAGTTCTCTTGTATTAGAACTATTATCTAGACATG 3170
Qy 3430 TGGGCTTGGATTTAGCATGCCAAAGGCACACACTTCTGAATGCTGTGTAAGAGTTAT 3489
Db 3171 GAGGGCTGAATTTAGCATGCCACAGCAAGGCATGCTTTTACACATCTTGCCTTAAAAAT 3230
Qy 3490 TATTCAATTTACT-----TTGTCTTTTGGAAAAGGTGAAGTGTGTGAGAAAAGACTCA 3541
Db 3231 TACTGATTTCACTCTGTCTTGTCTTTAGAAAAGTGAAGTGTGAGAGAGGAGAACTCA 3290

RESULT 7
US-09-751-797-9
; Sequence 9, Application US/09751797
; Patent No. US2001002452A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: (TIP8) The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/09/751,797
; PRIOR FILING DATE: 2000-12-29
; PRIOR FILING DATE: 1999-10-18
; PRIOR FILING DATE: 1999-10-18
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-09-751-797-9

Query Match 10.1%; Score 602.4; DB 3; Length 1111;
Best Local Similarity 99.8%; Pred. No. 2.7e-123;
Matches 603; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 5221 ATAGCTTGGAGAGCGGAGAGATCAAAGCATCGGGAACTGGACCTGCTGTTTATGTC 5280
Db 508 AAAGCTTGGAGAGCGGAGAGATCAAAGCATCGGGAACTGGACCTGCTGTTTATGTC 567
Qy 5281 TCTGAGAAATGCTTGCCTCTGAGCGAGAGAGCTAGAAAAGCAAGAACTGCTCTTCTT 5340
Db 568 TCTGAGAAATGCTTGCCTCTGAGCGAGAGAGCTAGAAAAGCAAGAACTGCTCTTCTT 627
Qy 5341 GCCTTTCTAAAAGAAACAATAAGATCCCTGAAATGCACTTTTCTTAAAGGAAAGTGAGAA 5400
Db 628 GCCTTTCTAAAAGAAACAATAAGATCCCTGAAATGCACTTTTCTTAAAGGAAAGTGAGAA 687
Qy 5401 GCTAACGTCACCATCAATTAGAAGATTTCAATGAACCTGGCTCAGTTGAAAGAGAAAA 5460
Db 688 GCTAACGTCACCATCAATTAGAAGATTTCAATGAACCTGGCTCAGTTGAAAGAGAAAA 747
Qy 5461 TAGTGTCAAGTTGTCCATGAGACCAAGAGGTAGATCTTGATAACCAAGATTTCAATTGACA 5520
Db 748 TAGTGTCAAGTTGTCCATGAGACCAAGAGGTAGATCTTGATAACCAAGATTTCAATTGACA 807
Qy 5521 ATATTTTATTGTCATTGATTAATGCAACAGAAAAAGTATGTACTTTTAAAAAATTTGTTGAA 5580

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Db      808  ATATTTTATTTGTCATTAATGCAACAGAAAAAGTAGTACTTTTAAAAAATTTGTTGAA  867
Qy      5581  AGGAGGTTTACCTCTCATTCTCTAGAGAAAAGCCTATGTAACCTTTCCATAACCAA  5640
Db      868  AGGAGGTTTACCTCTCATTCTCTAGAGAAAAGCCTATGTAACCTTTCCATAACCAA  927
Qy      5641  TACTTTATATATGTAAGTTTATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA  5700
Db      928  TACTTTATATATGTAAGTTTATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA  987
Qy      5701  ATATGGATTTTATTTATAGAAAAATTAICTGATGTTGATATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA  5760
Db      988  ATATGGATTTTATTTATAGAAAAATTAICTGATGTTGATATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA  1047
Qy      5761  ATTTATGATTAATACTATAGAAAACAGATATCTTAGGCTTTTAAATAACACATGAATATCA  5820
Db      1048  ATTTATGATTAATACTATAGAAAACAGATATCTTAGGCTTTTAAATAACACATGAATATCA  1107
Qy      5821  TAAA 5824
Db      1108  TAAA 1111
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RESULT 8
US-10-627-273-9
; Sequence 9, Application US/10627273
; Publication No. US20040110189A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/10/627,273
; PRIOR FILING DATE: 2003-07-25
; PRIOR APPLICATION NUMBER: US/09/751,797
; PRIOR FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
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US-10-627-273-9
Query Match 10.1%; Score 602.4; DB 7; Length 1111;
Best Local Similarity 99.8%; Pred. No. 2.7e-123; Mismatches 1; Indels 0; Gaps 0;
Matches 603; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      5221  ATAGCTTGGAGAGCGGAGAGATCAAGCGATCGGGGAACCTGACCTGCTGTTTATGTC  5280
Db      508  AAAGCTTGGAGAGCGGAGAGATCAAGCGATCGGGGAACCTGACCTGCTGTTTATGTC  567
Qy      5281  TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAAGAACTGCTCCTTCCCT  5340
Db      568  TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAAGAACTGCTCCTTCCCT  627
Qy      5341  GCCTTCTAAAAGAACAAATAAGATCCCTGATGACCTTTTACTTAAAGGAAAAGTGAGAA  5400
Db      628  GCCTTCTAAAAGAACAAATAAGATCCCTGATGACCTTTTACTTAAAGGAAAAGTGAGAA  687
Qy      5401  GCTAACGTCACCATCATTTAGAAAGATTTCATGAAACCTGGCTCAGTTGAAAAGAGAAA  5460
Db      688  GCTAACGTCACCATCATTTAGAAAGATTTCATGAAACCTGGCTCAGTTGAAAAGAGAAA  747
Qy      5461  TAGTGTCAGGTTGTCATGAGACCAGAGGTAGACTTGTATACCAACAAAGATTCATTGACA  5520
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Db      748  TAGTGTCAGGTTGTCATGAGACCAGAGGTAGACTTGTATACCAACAAAGATTCATTGACA  807
Qy      5521  ATATTTTATTTGTCATTAATGCAACAGAAAAAGTAGTACTTTTAAAAAATTTGTTGAA  5580
Db      808  ATATTTTATTTGTCATTAATGCAACAGAAAAAGTAGTACTTTTAAAAAATTTGTTGAA  867
Qy      5581  AGGAGGTTTACCTCTCATTCTCTAGAGAAAAGCCTATGTAACCTTTCCATAACCAA  5640
Db      868  AGGAGGTTTACCTCTCATTCTCTAGAGAAAAGCCTATGTAACCTTTCCATAACCAA  927
Qy      5641  TACTTTATATATGTAAGTTTATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA  5700
Db      928  TACTTTATATATGTAAGTTTATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA  987
Qy      5701  ATATGGATTTTATTTATAGAAAAATTAICTGATGTTGATATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA  5760
Db      988  ATATGGATTTTATTTATAGAAAAATTAICTGATGTTGATATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA  1047
Qy      5761  ATTTATGATTAATACTATAGAAAACAGATATCTTAGGCTTTTAAATAACACATGAATATCA  5820
Db      1048  ATTTATGATTAATACTATAGAAAACAGATATCTTAGGCTTTTAAATAACACATGAATATCA  1107
Qy      5821  TAAA 5824
Db      1108  TAAA 1111
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RESULT 9
US-09-751-797-7
; Sequence 7, Application US/09751797
; Patent No. US20010024652A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/09/751,797
; CURRENT FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 7
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
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US-09-751-797-7
Query Match 9.4%; Score 555.2; DB 3; Length 1119;
Best Local Similarity 96.0%; Pred. No. 8.9e-113; Mismatches 580; Conservative 0; Mismatches 23; Indels 1; Gaps 1;

Qy      5221  ATAGCTTGGAGAGCGGAGAGATCAAGCGATCGGGGAACCTGACCTGCTGTTTATGTC  5280
Db      510  AAAGCTTGGAGAGCGGAGAGATCAAGCGATCGGGGAACCTGACCTGCTGTTTATGTC  569
Qy      5281  TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAAGAACTGCTCCTTCCCT  5340
Db      570  TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAAGAACTGCTCCTTCCCT  629
Qy      5341  GCCTTCTAAAAGAACAAATAAGATCCCTGATGACCTTTTACTTAAAGGAAAAGTGAGAA  5400
Db      630  GCCTTCTAAAAGAACAAATAAGATCCCTGATGACCTTTTACTTAAAGGAAAAGTGAGAA  689
Qy      5401  GCTAACGTCACCATCATTTAGAAAGATTTCATGAAACCTGGCTCAGTTGAAAAGAGAAA  5460
Db      690  GCTAACGTCACCATCATTTAGAAAGATTTCATGAAACCTGGCTCAGTTGAAAAGAGAAA  749
Qy      5461  TAGTGTCAGGTTGTCATGAGACCAGAGGTAGACTTGTATACCAACAAAGATTCATTGACA  5520
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Db 750 TAGTGTCAGGTTGTCATGAGACCAGAGGTAGACTTGTGATTAACACAAAGATTTCATTGACA 809
Qy 5521 ATATTTTATTTGTCATGATTAATGCAACAGAAAAAGTATGACTTTTAAAAAATTGTTTGA 5580
Db 810 ATATTTTATTTGTCATGATTAATGCAACAGAAAAAATAATGACTTTTAAAAAATTGTTTGA 869
Qy 5581 AGGAGGTTTACTCTTCATTCTCTAGAGAAAAAGCTATGTAACCTTCATTTCCATAACCAA 5640
Db 870 AGGAGGTTTACTCTTCATTCTCTAGAGAAAAAGCTATGTAACCTTCATTTCCATAACCAA 929
Qy 5641 TACTTTATATATGTAAGTTTATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 5700
Db 930 TATTTTATATGTAAGTTTATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 989
Qy 5701 ATATGGATTTTATTAAGAAAAATATCTGATGTTGATATTTGAGTATAAGCAATAAT 5760
Db 990 ATATGGATTTTATTAAGAAAAATATCTGATGTTGATATTTGAGTATAAGCAATAAT 1048
Qy 5761 ATTTATGATAAATACTATGAAAAAAGATATCTTAGGCTTTTAAATAACACATGATATCA 5820
Db 1049 ATTTATGATAAATACTATGAAAAAAGATATCTTAGGCTTTTAAATAACACATGATATCA 1108
Qy 5821 TAAA 5824
Db 1109 TAAA 1112

RESULT 10
US-10-627-273-7
; Sequence 7, Application US/10627273
; Publication No. US20040110189A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: (Tifs) The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543.2
; CURRENT APPLICATION NUMBER: US/10/627,273
; CURRENT FILING DATE: 2003-07-25
; PRIOR APPLICATION NUMBER: US/09/751,797
; PRIOR FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 7
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-10-627-273-7

Query Match 9.4%; Score 555.2; DB 7; Length 1119;
Best Local Similarity 96.0%; Pred. No. 8.9e-113; Indels 1; Gaps . 1;
Matches 580; Conservative 0; Mismatches 23;

Qy 5221 ATAGCTTGGAGAGCGGAGAGATCAAAAGCGATCGGGAACTGGACCTGCTGTTTATGTC 5280
Db 510 AAGCTTGGAGAGAGTGGAGAGATCAAGCGATTTGGGAACTGGACCTGCTGTTTATGTC 569
Qy 5281 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAGAACTGCTCTTCCT 5340
Db 570 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAGAACTGCTCTTCCT 629
Qy 5341 GCCTTCTAAAAGAACATAGATCCCTGAATGGACTTTTCTTAAAGGAAAGTGAGAA 5400
Db 630 GCCTTCTAAAAGAACATAGATCCCTGAATGGACTTTTCTTAAAGGAAAGTGAGAA 689
Qy 5401 GCTAACGTCCTCCACATCAATTAGAAATTTTACATGAAACCTGGCTCAGTTGAAAGAGAAA 5460
Db 593 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAGAACTGCTCTTCCT
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Db 690 GCTAACGTCCTCATCATCATTAGAAAGATTTTCAATGAAACCTGGCTCAGTTGAAAAAGAAAA 749
Qy 5461 TAGTGTCAGGTTGTCATGAGACCAGAGGTAGACTTGTGATTAACACAAAGATTTCATTGACA 5520
Db 750 TAGTGTCAGGTTGTCATGAGACCAGAGGTAGACTTGTGATTAACACAAAGATTTCATTGACA 809
Qy 5521 ATATTTTATTTGTCATGATTAATGCAACAGAAAAAGTATGACTTTTAAAAAATTGTTTGA 5580
Db 810 ATATTTTATTTGTCATGATTAATGCAACAGAAAAAATAATGACTTTTAAAAAATTGTTTGA 869
Qy 5581 AGGAGGTTTACTCTTCATTCTCTAGAGAAAAAGCTATGTAACCTTCATTTCCATAACCAA 5640
Db 870 AGGAGGTTTACTCTTCATTCTCTAGAGAAAAAGCTATGTAACCTTCATTTCCATAACCAA 929
Qy 5641 TACTTTATATATGTAAGTTTATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 5700
Db 930 TATTTTATATGTAAGTTTATTTTATTAAGTATACATTTTATTTATGTCAGTTTATTA 989
Qy 5701 ATATGGATTTTATTAAGAAAAATATCTGATGTTGATATTTGAGTATAAGCAATAAT 5760
Db 990 ATATGGATTTTATTAAGAAAAATATCTGATGTTGATATTTGAGTATAAGCAATAAT 1048
Qy 5761 ATTTATGATAAATACTATGAAAAAAGATATCTTAGGCTTTTAAATAACACATGATATCA 5820
Db 1049 ATTTATGATAAATACTATGAAAAAAGATATCTTAGGCTTTTAAATAACACATGATATCA 1108
Qy 5821 TAAA 5824
Db 1109 TAAA 1112

RESULT 11
US-10-084-298-3
; Sequence 3, Application US/10084298
; Publication No. US20030099649A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: Pittman, Debra
; APPLICANT: Fouser, Lynette
; APPLICANT: Spaulding, Vikki
; APPLICANT: Xuan, Dejun
; TITLE OF INVENTION: Composition and Method for Treating Inflammatory
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: GI5358 CIP
; CURRENT APPLICATION NUMBER: US/10/084,298
; CURRENT FILING DATE: 2002-09-10
; PRIOR APPLICATION NUMBER: 60/270,823
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/281,353
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: 60/131,473
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/561,811
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1166
; TYPE: DNA
; ORGANISM: Murine
US-10-084-298-3

Query Match 9.4%; Score 555.2; DB 5; Length 1166;
Best Local Similarity 96.0%; Pred. No. 9.1e-113; Indels 1; Gaps 1;
Matches 580; Conservative 0; Mismatches 23;

Qy 5221 ATAGCTTGGAGAGCGGAGAGATCAAAAGCGATCGGGAACTGGACCTGCTGTTTATGTC 5280
Db 533 AAGCTTGGAGAGAGTGGAGAGATCAAGCGATTTGGGAACTGGACCTGCTGTTTATGTC 592
Qy 5281 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAGAACTGCTCTTCCT 5340
Db 593 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAGAACTGCTCTTCCT 652
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; LENGTH: 1166
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-873-972-3

Query Match          9.4%; Score 555.2; DB 8; Length 1166;
Best Local Similarity 96.0%; Pred. No. 9.1e-113;
Matches 580; Conservative 0; Mismatches 23; Indels 1; Gaps 1;

Qy 5221 ATAGCTTGGAGAGCGGAGAGATCAAAAGCGATCGGGGAACCTGACCTGCTGTTTATGTC 5280
Db |||||
Qy 533 AAAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC 592
Db |||||
Qy 5281 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAAGCTGCTCCTTCCCT 5340
Db |||||
Qy 593 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAAGCTGCTCCTTCCCT 652
Db |||||
Qy 5341 GCCTTCTAAAAGAACCAATAGATCCCTGGAATGGAATCTTTTACTAAAGGAAAGTGAGAA 5400
Db |||||
Qy 5401 GCTAACGCTCCACCATCATTAGAAGATTTTCATGAAACCTGGCTCAGTTGAAAGAGAAA 5460
Db |||||
Qy 713 GCTAACGCTCCATCATTTATTAGAGATTTTCATGAAACCTGGCTCAGTTGAAAGAGAAA 772
Db |||||
Qy 5461 TAGTGTCAGGTTGTCCTGATGAGACGAGAGTGAATCTGATACCAAGAGATTTCATTGACA 5520
Db |||||
Qy 773 TAGTGTCAGGTTGTCCTGATGAGACGAGAGTGAATCTGATACCAAGAGATTTCATTGACA 832
Db |||||
Qy 5521 ATATTTTATGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 5580
Db |||||
Qy 833 ATATTTTATGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 892
Db |||||
Qy 5581 AGGAGGTTACCTCTCATCTCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 5640
Db |||||
Qy 893 AGGAGGTTACCTCTCATCTCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 952
Db |||||
Qy 5641 TACTTTATATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 5700
Db |||||
Qy 953 TATTTTATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1012
Db |||||
Qy 5701 ATATGGATTTATTTATAGAAAATTTATCTGATGTTGATATTTTATGATATTAAGCAAAAT 5760
Db |||||
Qy 1013 ATATGGATTTATTTATAGAAAATTTATCTGCTATTTGATATTTT-AGTATAAGGCAAAAT 1071
Db |||||
Qy 5761 ATTTATGATATTAATCTATAGAAAACAGATATCTTAGGCTTTTAAATAACACATGATATCA 5820
Db |||||
Qy 1072 ATTTATGCAATAACTATAGAAAACAGATATCTTAGGCTTTTAAATAACACATGATATCA 1131
Db |||||
Qy 5821 TAAA 5824
Db |||||
Qy 1132 TAAA 1135
Db |||||
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US-11-157-387-3
; Sequence 3, Application US/11157387
; Publication No. US20050238648A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: Pittman, Debra
; APPLICANT: Fouser, Lynette
; APPLICANT: Spaulding, Vikki
; APPLICANT: Xuan, Dejun
; TITLE OF INVENTION: Composition and Method for Treating Inflammatory
; FILE REFERENCE: G15358 CIP
; CURRENT APPLICATION NUMBER: US/11/157,387
; CURRENT FILING DATE: 2005-05-20
; PRIOR APPLICATION NUMBER: US/10/084,298
; PRIOR FILING DATE: 2002-09-10
; PRIOR APPLICATION NUMBER: 60/270,823
; PRIOR FILING DATE: 2001-02-23
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; PRIOR APPLICATION NUMBER: 60/281,353
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: 60/131,473
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/561,811
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1166
; TYPE: DNA
; ORGANISM: Murine
US-11-157-387-3

Query Match          9.4%; Score 555.2; DB 10; Length 1166;
Best Local Similarity 96.0%; Pred. No. 9.1e-113;
Matches 580; Conservative 0; Mismatches 23; Indels 1; Gaps 1;

Qy 5221 ATAGCTTGGAGAGCGGAGAGATCAAAAGCGATCGGGGAACCTGACCTGCTCCTTCCCT 5280
Db |||||
Qy 533 AAAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC 592
Db |||||
Qy 5281 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAAGCTGCTCCTTCCCT 5340
Db |||||
Qy 593 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAGCTAGAAAACGAAAGCTGCTCCTTCCCT 652
Db |||||
Qy 5341 GCCTTCTAAAAGAACCAATAGATCCCTGGAATGGAATCTTTTACTAAAGGAAAGTGAGAA 5400
Db |||||
Qy 653 GCCTTCTAAAAGAACCAATAGATCCCTGGAATGGAATCTTTTACTAAAGGAAAGTGAGAA 712
Db |||||
Qy 5401 GCTAACGCTCCACCATCATTAGAAGATTTTCATGAAACCTGGCTCAGTTGAAAGAGAAA 5460
Db |||||
Qy 713 GCTAACGCTCCATCATTTATTAGAGATTTTCATGAAACCTGGCTCAGTTGAAAGAGAAA 772
Db |||||
Qy 5461 TAGTGTCAGGTTGTCCTGATGAGACGAGAGTGAATCTGATACCAAGAGATTTCATTGACA 5520
Db |||||
Qy 773 TAGTGTCAGGTTGTCCTGATGAGACGAGAGTGAATCTGATACCAAGAGATTTCATTGACA 832
Db |||||
Qy 5521 ATATTTTATGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 5580
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Qy 833 ATATTTTATGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 892
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Qy 5581 AGGAGGTTACCTCTCATCTCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 5640
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Qy 893 AGGAGGTTACCTCTCATCTCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 952
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Qy 5641 TACTTTATATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 5700
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Qy 953 TATTTTATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1012
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Qy 5701 ATATGGATTTATTTATAGAAAATTTATCTGATGTTGATATTTTATGATATTAAGCAAAAT 5760
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Qy 1013 ATATGGATTTATTTATAGAAAATTTATCTGCTATTTGATATTTT-AGTATAAGGCAAAAT 1071
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Qy 5761 ATTTATGATATTAATCTATAGAAAACAGATATCTTAGGCTTTTAAATAACACATGATATCA 5820
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Qy 1072 ATTTATGCAATAACTATAGAAAACAGATATCTTAGGCTTTTAAATAACACATGATATCA 1131
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Qy 5821 TAAA 5824
Db |||||
Qy 1132 TAAA 1135
Db |||||
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RESULT 15
US-10-090-365-40
; Sequence 40, Application US/10090365
; Publication No. US2003007706A1
; GENERAL INFORMATION:
; APPLICANT: Presnell, Scott R.
; APPLICANT: Xu, Wenfeng
; APPLICANT: Kindsvogel, Wayne
; APPLICANT: Chen, Zhi
; TITLE OF INVENTION: Mouse Cytokine Receptor
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; FILE REFERENCE: 01-08
; CURRENT APPLICATION NUMBER: US/10/090,365
; CURRENT FILING DATE: 2002-03-04
; PRIOR APPLICATION NUMBER: US 60/273,035
; PRIOR FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: US 60/279,232
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 1050
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (50)...(589)
US-10-090-365-40

Query Match 9.1%; Score 541.4; DB 5; Length 1050;
Best Local Similarity 99.8%; Pred. No. 1e-109;
Matches 542; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
508 AAAGCTTGGAGAGCGGAGAGATCAAGCGATCGGGGAAGTGGACCTGCTGTTTATGTC 567
QY 5281 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAAAGCTAGAAAACGAAAGAACTGCTCTTCCT 5340
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
568 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAAAGCTAGAAAACGAAAGAACTGCTCTTCCT 627
QY 5341 GCCTTCTAAAGAAACAAATAGATCCCTGAATGGACTTTTTTACTAAAGGAAAAGTGAGAA 5400
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
628 GCCTTCTAAAGAAACAAATAGATCCCTGAATGGACTTTTTTACTAAAGGAAAAGTGAGAA 687
QY 5401 GCTAAAGCTCCACCATCATTTAGAGATTTTCATGAAACCTGGCTCAGTTCAAAGAGAAAA 5460
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
688 GCTAAAGCTCCACCATCATTTAGAGATTTTCATGAAACCTGGCTCAGTTCAAAGAGAAAA 747
QY 5461 TAGTGTCAGTGTGTCATGAGACGAGAGTAGACTTGATTAACCAAGAGATTCAATTGACA 5520
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
748 TAGTGTCAGTGTGTCATGAGACGAGAGTAGACTTGATTAACCAAGAGATTCAATTGACA 807
QY 5521 ATATTTTATTGTCAATGATATGCAACAGAAAAAGTAGTACTTTTAAAAAATTGTTTGA 5580
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
808 ATATTTTATTGTCAATGATATGCAACAGAAAAAGTAGTACTTTTAAAAAATTGTTTGA 867
QY 5581 AGGAGGTACCTCTCATCTCTAGAGAAAGCCTATGTAACCTTCAATTCATTAACCAA 5640
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
868 AGGAGGTACCTCTCATCTCTAGAGAAAGCCTATGTAACCTTCAATTCATTAACCAA 927
QY 5641 TACTTTATATATGTAAGTGTATTATTATTAAAGTATACATTTTATTATGTCAAGTTTATTA 5700
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
928 TACTTTATATATGTAAGTGTATTATTATTAAAGTATACATTTTATTATGTCAAGTTTATTA 987
QY 5701 ATATGGATTTATTATAGAAAAATTAFTCTGATGTTGATATTTGAGTATAAGCAAAATAAT 5760
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
988 ATATGGATTTATTATAGAAAAATTAFTCTGATGTTGATATTTGAGTATAAGCAAAATAAT 1047
QY 5761 ATT 5763
Db |||
1048 ATT 1050

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 20, 2005, 13:17:12 ; Search time 413.821 Seconds
(without alignments)
7442.822 Million cell updates/sec

Title: US-09-751-797-29

Perfect score: 5935
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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 4168288 seqs, 259477437 residues

Total number of hits satisfying chosen parameters: 8336576

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	5935	100.0	5935	7 US-11-177-987-42	Sequence 42, Appl
2	4245.2	71.5	7445	7 US-11-177-987-8	Sequence 8, Appl
3	650	11.0	4797	7 US-11-177-987-26	Sequence 26, Appl
4	602.4	10.1	1111	7 US-11-177-987-9	Sequence 9, Appl
5	555.2	9.4	1119	7 US-11-177-987-7	Sequence 7, Appl
6	215	3.6	1152	7 US-11-102-240-153	Sequence 153, App
7	159.4	2.7	187745	7 US-11-121-086-83	Sequence 83, Appl
8	145	2.4	171936	6 US-10-933-025-24	Sequence 24, Appl
9	142	2.4	260209	6 US-10-933-025-23	Sequence 23, Appl
10	139	2.3	17004	7 US-11-176-253-1	Sequence 1, Appl
11	133	2.2	135019	6 US-10-849-438-11	Sequence 11, Appl
12	128.8	2.2	10166	7 US-11-147-606-3	Sequence 3, Appl
13	127.6	2.1	690	7 US-11-177-987-25	Sequence 25, Appl
14	126.4	2.1	126552	7 US-11-121-086-1	Sequence 1, Appl
15	125.4	2.1	2695	7 US-11-000-365-35	Sequence 35, Appl
16	125.4	2.1	2695	7 US-11-032-794-35	Sequence 35, Appl
17	124.6	2.1	171936	6 US-10-933-025-24	Sequence 24, Appl
18	120.4	2.0	4621	6 US-10-960-644-2	Sequence 2, Appl
19	119.6	2.0	10166	7 US-11-147-606-3	Sequence 3, Appl
20	117.2	2.0	418	7 US-11-177-987-18	Sequence 18, Appl
21	117	2.0	184868	7 US-11-121-086-88	Sequence 88, Appl
22	114.8	1.9	2868	9 US-11-012-762-5	Sequence 5, Appl
23	111.4	1.9	394468	6 US-10-995-561-13473	Sequence 13473, A

RESULT 1
US-11-177-987-42

; Sequence 42, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5664
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/11/177,987
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US/09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US/09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 42
; LENGTH: 5935
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-11-177-987-42

Query Match 100.0%; Score 5935; DB 7; Length 5935;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 5935; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GAATTCAGTCCACATGCAATCGAATACCTTTGTAATTTCTCTTCAAAATATCC	60
Db	1	GAATTCAGTCCACATGCAATCGAATACCTTTGTAATTTCTCTTCAAAATATCC	60
Qy	61	ATCTATATAGTAAAGTTATTTAGGATCAATTTAAATAATGTTTGGAGACTTATGTTT	120
Db	61	ATCTATATAGTAAAGTTATTTAGGATCAATTTAAATAATGTTTGGAGACTTATGTTT	120
Qy	121	GCACAGTAAATGTCAGAGAGAAATAGCAAAATGATAGTATTATTTTAAAAAAT	180
Db	121	GCACAGTAAATGTCAGAGAGAAATAGCAAAATGATAGTATTATTTTAAAAAAT	180
Qy	181	CTATGCTAAAAATGCTTATTAGTATGTTCACTGACTTCCAAACTTAACCTTGACCT	240

ALIGNMENTS

Db 181 CTATGCTAAAAATGCTATTAGATTGTTTCACTACTAGCATTTTCCAAAATTTAACTTGACCT 240
Qy 241 TGGCTATGATTTCAACCTTTGTTATTTGCACTACCAATAAATGTTGCTGCTCACTTACCATGC 300
Db 241 TGGCTATGATTTCAACCTTTGTTATTTGCACTACCAATAAATGTTGCTGCTCACTTACCATGC 300
Qy 301 TATCCGACGAGCATGTTCCCTCGATGTTTTTGGCCCTTTTGGCTCTCTCGCTAACAGGCTCTC 360
Db 301 TATCCGACGAGCATGTTCCCTCGATGTTTTTGGCCCTTTTGGCTCTCTCGCTAACAGGCTCTC 360
Qy 361 CTCTCAGTTATCAAACTTTTGACACTTGTGCGATCGGTGATGCGTGTCTCTGCGAGAAAATCTA 420
Db 361 CTCTCAGTTATCAAACTTTTGACACTTGTGCGATCGGTGATGCGTGTCTCTGCGAGAAAATCTA 420
Qy 421 TGAGTTTTTCCCTTATGCGGACTTTTGGCGGACAGCTGCTCTCTCATTTGCGCTGTGGG 480
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Qy 481 CCCAGGAGGCAAAATGCGCTGCCCATCAACACCCGGTGCAGCTTGAAGTGTCCAACTTCC 540
Db 481 CCCAGGAGGCAAAATGCGCTGCCCATCAACACCCGGTGCAGCTTGAAGTGTCCAACTTCC 540
Qy 541 AGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCCAAGGAGGTACAGTGCATCTCT 600
Db 541 AGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCCAAGGAGGTACAGTGCATCTCT 600
Qy 601 TTCTCTCATACCGCTTGGCAATTTCTCTGAAGCACTTGCAAAATCTTTAAGGGCGCTTT 660
Db 601 TTCTCTCATACCGCTTGGCAATTTCTCTGAAGCACTTGCAAAATCTTTAAGGGCGCTTT 660
Qy 661 ATCTCCGAGGTCTCACTACCTATGTTTTCTGTTCTTTAGAGACTCTTTAAGGACTGGA 720
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Qy 781 ATATACTGAATTTTATCTAGAGGCGGTTTAGAAGCCACCCACGACTGCAATACTTT 840
Db 781 ATATACTGAATTTTATCTAGAGGCGGTTTAGAAGCCACCCACGACTGCAATACTTT 840
Qy 841 CCATCTGTTGCTCTCTCTGAACTCATACTCTCTTGGTCTCTCTGAGACCACTGC 900
Db 841 CCATCTGTTGCTCTCTCTGAACTCATACTCTCTTGGTCTCTCTGAGACCACTGC 900
Qy 901 GGACATACATCTCTACTTACAGGCTTTTCTTCCATCTCTCTTGTCAACCCAGGCACTTAGG 960
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Qy 961 TTTTCTCTTTTCAAGCCAGCTTGCAGATAAACACACAGAGTCCGGCTCATCGGGAG 1020
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Qy 1201 CTCCCCAGTCAGACAGTTCGGGCTTACATGATGAGGAGTGGTCCCTTTCTGACCAAA 1260
Db 1201 CTCCCCAGTCAGACAGTTCGGGCTTACATGATGAGGAGTGGTGGCTTTCTGACCAAA 1260
Qy 1261 CTCAGCAATCAGCTCAGCTCTGTGTAAGTCTGGCTCTGGCTACCTATGCTCTCTCTCT 1320
Db 1261 CTCAGCAATCAGCTCAGCTCTGTGTAAGTCTGGCTCTGGCTACCTATGCTCTCTCTCT 1320

Qy 1321 TCCTCTTCTATTCCAGTAAGAACCCGAGGTCTGCCCTCTCTCTCTTTCACAAGAGTGAGG 1380
Db 1321 TCCTCTTCTATTCCAGTAAGAACCCGAGGTCTGCCCTCTCTCTCTTTCACAAGAGTGAGG 1380
Qy 1381 AGGCGCTCAGCACACACCATCATAGGCCACTGTGAATAAGGTCAAAAAGGCTTTGGCTT 1440
Db 1381 AGGCGCTCAGCACACACCATCATAGGCCACTGTGAATAAGGTCAAAAAGGCTTTGGCTT 1440
Qy 1441 CAATTGAGTAATATCTTTGAGTTTGTATAGTAAAGCTTTATTTGTTTTATCCATGGAAAG 1500
Db 1441 CAATTGAGTAATATCTTTGAGTTTGTATAGTAAAGCTTTATTTGTTTTATCCATGGAAAG 1500
Qy 1501 AAATCAACTCAAAATTTCTGTAGGATGAGAAAGATGTTGGGAAACGAAAAAGGCTTAGATAG 1560
Db 1501 AAATCAACTCAAAATTTCTGTAGGATGAGAAAGATGTTGGGAAACGAAAAAGGCTTAGATAG 1560
Qy 1561 AGAAACAGATCTCTGAGTACAGTACTTATTTGGGGGGGGGGGCAAGGGGGGATATCCACT 1620
Db 1561 AGAAACAGATCTCTGAGTACAGTACTTATTTGGGGGGGGGGGCAAGGGGGGATATCCACT 1620
Qy 1621 GAGTCCAGTACTTGTGGGAGAGAAATCCACTGAGTACAAAGTACTTTGTGGGGGAAAGGAA 1680
Db 1621 GAGTCCAGTACTTGTGGGAGAGAAATCCACTGAGTACAAAGTACTTTGTGGGGGAAAGGAA 1680
Qy 1681 TGGCACAGACCAAAAGTTGAAGGGAAGAGATGAGAGGCTCAATGTTTGGGGGTG 1740
Db 1681 TGGCACAGACCAAAAGTTGAAGGGAAGAGATGAGAGGCTCAATGTTTGGGGGTG 1740
Qy 1741 TGAAGGTCACTCTCTTTTCCATGTGATGAGAGTTTGAAGAAATCAAGTGTGAGTTTG 1800
Db 1741 TGAAGGTCACTCTCTTTTCCATGTGATGAGAGTTTGAAGAAATCAAGTGTGAGTTTG 1800
Qy 1801 ATGCTTTCAGACACCCCAACTATGCGGAGACTGTGGGAGACTGGCATTTAGGGGAAGCGC 1860
Db 1801 ATGCTTTCAGACACCCCAACTATGCGGAGACTGTGGGAGACTGGCATTTAGGGGAAGCGC 1860
Qy 1861 GGCTTTTTCACACGAGAAATTTATGCTCATCTCTTGTGCTACACTCCACCTTTGATGAG 1920
Db 1861 GGCTTTTTCACACGAGAAATTTATGCTCATCTCTTGTGCTACACTCCACCTTTGATGAG 1920
Qy 1921 GTTAAGCTCAGGTTTCGTTTCTACCGTTCTGTACTGTGGGAAATCTCAGTAGGATTC 1980
Db 1921 GTTAAGCTCAGGTTTCGTTTCTACCGTTCTGTACTGTGGGAAATCTCAGTAGGATTC 1980
Qy 1981 CCAAGACGAGGACAGCTCTTCTGTAGGAGGAGACCTGGATTTTCACTGCTTAGAGAAC 2040
Db 1981 CCAAGACGAGGACAGCTCTTCTGTAGGAGGAGACCTGGATTTTCACTGCTTAGAGAAC 2040
Qy 2041 GAAATAGCTCAGAGAAATCTAGGTCAACGTGAAATCTAGGTCAACGCGGGCAAAAATGACT 2100
Db 2041 GAAATAGCTCAGAGAAATCTAGGTCAACGTGAAATCTAGGTCAACGCGGGCAAAAATGACT 2100
Qy 2101 GAAAGCTCTATTTCCAGGTGAAACGCTCAAGTCTCAGATATCTAGGATTTGGGCTCC 2160
Db 2101 GAAAGCTCTATTTCCAGGTGAAACGCTCAAGTCTCAGATATCTAGGATTTGGGCTCC 2160
Qy 2161 CACCGGATAGATTTCTGTTAGTGTCTGTTTTTATTTTGCAGCACATCAGTGTGAGCA 2220
Db 2161 CACCGGATAGATTTCTGTTAGTGTCTGTTTTTATTTTGCAGCACATCAGTGTGAGCA 2220
Qy 2221 CCAGAACATCCAGAAAGATGTCAAGGCTGAAGGACAGTGAAGAGGTACTATTGGC 2280
Db 2221 CCAGAACATCCAGAAAGATGTCAAGGCTGAAGGACAGTGAAGAGGTACTATTGGC 2280
Qy 2281 AAGCCACAATACTAAGCCATTTCACTAGGAGACGTTGGGATTTCTTCTCTGCTCCCACT 2340
Db 2281 AAGCCACAATACTAAGCCATTTCACTAGGAGACGTTGGGATTTCTTCTCTGCTCCCACT 2340
Qy 2341 CTCTTCTACTTTGTAAACATTTTCTTGTACTGTCTGCTGCTGCTTACTTACTTACTTACT 2400
Db 2341 CTCTTCTACTTTGTAAACATTTTCTTGTACTGTCTGCTGCTGCTTACTTACTTACTTACT 2400

Qy	2401	CTGCACCTGCATCTAGCTGGGTCTATAGATCTTTCAATCTGTGTCTATAAATTTGTGAAGTCA	2460
Db	2401	CTGCACCTGCATCTAGCTGGGTCTATAGATCTTTCAATCTGTGTCTATAAATTTGTGAAGTCA	2460
Qy	2461	CAATTTCTGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCACTTGTCTCGGAGGA	2520
Db	2461	CAATTTCTGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCACTTGTCTCGGAGGA	2520
Qy	2521	TGGCTTTGTGACAGAGTCAATCTCTAGAAAGACAGCATCCCTGANTCCCAAGCTCTGCACCTTGC	2580
Db	2521	TGGCTTTGTGACAGAGTCAATCTCTAGAAAGACAGCATCCCTGANTCCCAAGCTCTGCACCTTGC	2580
Qy	2581	CTAGTGGCCAGCTGTAATTAATCTTTAGCTCTGANTAAAGTATTTTGGGAAAGCCAAATTTCCCAAC	2640
Db	2581	CTAGTGGCCAGCTGTAATTAATCTTTAGCTCTGANTAAAGTATTTTGGGAAAGCCAAATTTCCCAAC	2640
Qy	2641	GACCTACATATCCGAAGAAGCATGCAATGAAACTAGAAAGCTGGGCAAAAATCTTACTA	2700
Db	2641	GACCTACATATCCGAAGAAGCATGCAATGAAACTAGAAAGCTGGGCAAAAATCTTACTA	2700
Qy	2701	GAGATGATTTTTCAGGCTCATTTAACTCATGCTCTGAAATGTGATCAAAATCAAACCCAGAAT	2760
Db	2701	GAGATGATTTTTCAGGCTCATTTAACTCATGCTCTGAAATGTGATCAAAATCAAACCCAGAAT	2760
Qy	2761	AACAACAAAAGAGCTGGATTTGCAAAATAGACAAGTATTTAGAAATCACTGGTATTAACAG	2820
Db	2761	AACAACAAAAGAGCTGGATTTGCAAAATAGACAAGTATTTAGAAATCACTGGTATTAACAG	2820
Qy	2821	CTGTCACTTTAATTAATAATATAGTGTCTATTTAGTGCCTATTTTAAAGTATTAACACAAAGA	2880
Db	2821	CTGTCACTTTAATTAATAATATAGTGTCTATTTAGTGCCTATTTTAAAGTATTAACACAAAGA	2880
Qy	2881	GTGGATAACTTTCCCAATTTTACTGGGCTGGTTTCAATAGAGTAAAAATATCAAGTCATAGA	2940
Db	2881	GTGGATAACTTTCCCAATTTTACTGGGCTGGTTTCAATAGAGTAAAAATATCAAGTCATAGA	2940
Qy	2941	TTAATTAATAGTGCATGAAAGTATGAGTTGGAAACCCCTTTCTTACTTTTTCATCTTCAAT	3000
Db	2941	TTAATTAATAGTGCATGAAAGTATGAGTTGGAAACCCCTTTCTTACTTTTTCATCTTCAAT	3000
Qy	3001	TCCTTAGTTATATTTTTTTTTTTCTTCACACCTGATCAAGCCACTAGTAAAGCACTATCTG	3060
Db	3001	TCCTTAGTTATATTTTTTTTTTTCTTCACACCTGATCAAGCCACTAGTAAAGCACTATCTG	3060
Qy	3061	CTCGAGCTATATATGACTTTACAGCAAAACAATGTCTGTGTGGGCTCTTTGGGGAAG	3120
Db	3061	CTCGAGCTATATATGACTTTACAGCAAAACAATGTCTGTGTGGGCTCTTTGGGGAAG	3120
Qy	3121	GGAAACGAGTAGCAGGAGGCTCAGGCTAGCAAGTCTGGAATCAACCTTAAAGCCAGAGGCA	3180
Db	3121	GGAAACGAGTAGCAGGAGGCTCAGGCTAGCAAGTCTGGAATCAACCTTAAAGCCAGAGGCA	3180
Qy	3181	TGGTTGATAGCAGAAAGTAGGCTCTTCACAAGTGGGTGTGCTTAAGTAAATCAGAAAC	3240
Db	3181	TGGTTGATAGCAGAAAGTAGGCTCTTCACAAGTGGGTGTGCTTAAGTAAATCAGAAAC	3240
Qy	3241	AGGAAGGCTCTGGTTGTATGGAAATTAACAGTAAAGATATCTACCCCTTATCTCCTTCTTCTAT	3300
Db	3241	AGGAAGGCTCTGGTTGTATGGAAATTAACAGTAAAGATATCTACCCCTTATCTCCTTCTTCTAT	3300
Qy	3301	AGAAGCTTAAACCGTCTCTCCTTCTGTGTGTAGGCTGATAAAACACGCTGTTTTTCTTTTG	3360
Db	3301	AGAAGCTTAAACCGTCTCTCCTTCTGTGTGTAGGCTGATAAAACACGCTGTTTTTCTTTTG	3360
Qy	3361	AGTGTTCATGGCTTTTGAGATTTTTCAGTGTCTCTGCCAGTTCTTGTTAGAGGTTTGTGTAC	3420
Db	3361	AGTGTTCATGGCTTTTGAGATTTTTCAGTGTCTCTGCCAGTTCTTGTTAGAGGTTTGTGTAC	3420
Qy	3421	CTTCACACCTGGGCTCGATGCTTAGCATGCCAAAGGACACACTTCTTGAATGCTGTGTA	3480
Db	3421	CTTCACACCTGGGCTCGATGCTTAGCATGCCAAAGGACACACTTCTTGAATGCTGTGTA	3480
Qy	3481	AAAGGTTATTATTCAATTAATCTTTGTCTTTTGGAAAGGTGAAGTGTGTGTGAGAAAGAACTC	3540

[illegible]

QY 652 GGGCGCTTTATCTCCGAGGTCTCACTACCTATGTTTTCTGTCTCTTTAGAGACTCTTTA 711
DB 2331 GGGCGCTTTATCTCCGAGGTCTCACTACCTATGTTTTCTGTCTCTTTAGAGACTCTTTA 2390
QY 712 AGAGTGGATCTTTTCTATTTCTATTTCTAAGGTCTCAGACCAATTTCTTATCTTGGCCT 771
DB 2391 AGAGTGGGTCTTTTCTATTTCTATTTCTAAGGTCTCAGACCAATTTCTTATCTTGGCCT 2450
QY 772 TCAGGACACATATACTCAATTTTTATCTACAGAGCGGTTTTAGAAAGCCACCCAGACTG 831
DB 2451 TCAGGACACATATACTGAAATTTATCTACAGAGCGGCAATTTAGAAAGCCACCCAGACTG 2510
QY 832 CAATACTTTCCATCTCTGTGTCTCTTTCTGAACTCATACTCTCTTGGTACTCTCTGAG 891
DB 2511 CAATACTTTCCATCTCTGTGTCTCTTTCTGAACTCATACTCTCTTGGTACTCTCTGAG 2570
QY 892 ACCCACTGGGACATATCTCTACTTTACAGGCTTTTCTCCATCTCTTGTCAACCAGG 951
DB 2571 ACCCACTGGGACATATCTCTACTTTACAGGCTTTTCTCCATCTCTTGTCAACCAGG 2630
QY 952 CACTTAGGGTTTTCTCTCTTTTCAGGCCAGCTTGCAGATAACACACAGACGTCCGGCTC 1011
DB 2631 CACTTAGGGTTTTCTCTCTTTTCAGGCCAGCTTGCAGATAACACACAGACGTCCGGCTC 2690
QY 1012 ATCGGGAGAACTGTTCCGAGGAGTCAGTGTAACTCTCACTGTGTATGACGAGGCTAG 1071
DB 2691 ATCGGGAGAACTGTTCCGAGGAGTCAGTGTAACTCTCACTGTGTATGACGAGGCTAG 2750
QY 1072 CTGGGGAGCTGGTGGACCTCTGGGATAGTCTGAGCGTATGACCCCTGTCTCTTTGTC 1131
DB 2751 CTGGGGAGCTGGTGGACCTCTGGGATAGTCTGAGCGTATGACCCCTGTCTCTTTGTC 2810
QY 1132 TACTCGAGCTAAGGATCAGTCTACTCTGATGAGCAGGTGCTCAACTTCCACCTGGAA 1191
DB 2811 TACTCGAGCTAAGGATCAGTCTACTCTGATGAGCAGGTGCTCAACTTCCACCTGGAA 2870
QY 1192 GACATTTCTGCTCCCGCAGTCAGACAGGTTCGGGCCCTACATGTCAGGAGGTGGTCTTC 1251
DB 2871 GACATTTCTGCTCCCGCAGTCAGACAGGTTCGGGCCCTACATGTCAGGAGGTGGTCTTC 2930
QY 1252 CTGACCAAACTCAGCAATCAGCTCAGCTCTCTGTGTAACTGTGGTCTGGCTACCTATGCT 1311
DB 2931 CTGACCAAACTCAGCAATCAGCTCAGCTCTCTGTGTAACTGTGGTCTGGCTACCTATGCT 2990
QY 1312 CCTCTCTCTCTCTCTCTATTTCCAGTAAGAACCGAGGCTCTGCCCCCTCTCTCTTCA 1371
DB 2991 CCTCTCTCTCTCTCTCTATTTCCAGTAAGAACCGAGGCTCTGCCCCCTCTCTCTTCA 3050
QY 1372 AGAGTGAAGGAGGCTCAGCAACCAACCATCATAGGCCACTTGAATAGGTCAACAAGG 1431
DB 3051 AGAGTGAAGGAGGCTCAGCAACCAACCATCATAGGCCACTTGAATAGGTCAACAAGG 3110
QY 1432 CTTTGGCTTCAATGAGTAATACTTTGAGTTGTTATTTAGTTAAGCTTTATTTGTTTATC 1491
DB 3111 CTTTGGCTTCAATGAGTAATACTTTGAGTTGTTATTTAGTTAAGCTTTATTTGTTTATC 3170
QY 1492 CATGGAAGAAATCAACTCAATTTCTGAGTGAAGAAATGTTGGGAGCAAGAAAGG 1551
DB 3171 CATGGAAGAAATCAACTCAATTTCTGAGTGAAGAAATGTTGGGAGCAAGAAAGG 3230
QY 1552 CCTAGATAGAAACAGATCTGCTGAGTACAGTACTTTATGGGGGGGGGGGGGGGGGG 1611
DB 3231 CCTAGATAGAAACAGATCTGCTGAGTATAGTACTTAT ---GGGGGGGAGGAGG 3286
QY 1612 ATATCCACTGAGTCAAGTACTTTGAGGAGAGAAATCCATGAGTACAGTCTTGT -- 1669
DB 3287 ATATCCACTGAGTCAAGTACTTTGAGGAGAGAAATCCACTGAGTACAGTCTTGTG 3346
QY 1670 -----GGGGGAAGGAATGGCAGAGCAAAAGT 1697
DB 3347 GCATGGAGATCCACTGAGTCAAGTACTTTGAGGAGGAGGAAATGGCAGAGCAAAAGT 3406

QY 1698 TGAAGGGAAGAGAGAGATGGAGAGCCTCAATGTTTGGGGGTGTGAAAGGTCACTCTCTTT 1757
DB 3407 TGAAGGGA ---AGGAAGATGGAGAGAGCCTCATGTTTGGGGGTGTGAAAGGTCACTCTCC -TT 3462
QY 1758 TTTCCATGTGATGAGAGTTAAGAAATCAGTGTGTGAGTTTGTATGTTCTTTCAGACACCCC 1817
DB 3463 TTTCCATGTGATGAGAGTTAAGAAATCCAGTGTGTGAGTTTGTATGTTCTTTCAGACACCCC 3522
QY 1818 AA-----CTATGGCAGACTGTGGGAGACCTTGGCAATTTAGGGAA 1855
DB 3523 CCACTATGAACATATCCAGGAGGCGGCGAGACTGTGGAGACCTTGGCAATTTAGGGAA 3582
QY 1856 GGGCGGCTTTTTCACAGGAAACTTTATGCTCATCTCTTGTGCTACACTCCACCTTTG 1915
DB 3583 GGGCGGCTTTTTCACAGGAAACTTTATGCTCATCTCTTGTGCTACACTCCACCTTTG 3642
QY 1916 ATCAGGTTAAGCTCAGGTTTCTACCGTTTCTGCTACTGCTGAACTTTCAGTAGG 1975
DB 3643 ATGAGGTTAAGCTCAGGTTTCTACCGTTTCTGCTACTGCTGAACTTTCAGTAGG 3702
QY 1976 ATTCCCAAGAGCAGGACAGCTCTTCTGTAAAGGAGGACCTTGGATTTTCAGTGTCTCTAG 2035
DB 3703 ATTCCCAAGAGCAGGACAGCTCTTCTGTAAAGGAGGACCTTGGATTTTCAGTGTCTCTAG 3762
QY 2036 AGAACGAATATGCTCAGAGATCTAGGTCAACGTGAAATCTAGGTCAACAGGGGCAAAA 2095
DB 3763 AGAACGAATATGCTCAGAGATCTAGGTCAACGTGAAATCTAGGTCAACAGGGGCAAAA 3822
QY 2096 TGACTCAACGCTCTATTTCCAGGTGAACGCTCAGCTCAGCTCAGATATCTCAGGTATGG 2155
DB 3823 TGACTCAACGCTCTATTTCCAGGTGAACGCTCAGCTCAGATATCTCAGGTATGG 3882
QY 2156 GCTCCCAACGCGATAAGATCTGTTAGTGTCTGCTTTTATTTTCAGACACATCAGTGGT 2215
DB 3883 GCTCCCAACGCGATAAGATCTGTTAGTGTCTGCTTTTATTTTCAGACACATCAGCGGT 3942
QY 2216 GACGACAGAACATCCAGAAATGTCAGAAAGCTGAGAGACAGTGAAGAGGTAATA 2275
DB 3943 GACGACAGAACATCCAGAAATGTCAGAAAGCTGAGAGACAGTGAAGAGGTAATA 4002
QY 2276 TTTGGCAAGCCAACTACTAAGCCATTCAGTAGAGAGCTGGGATTTCTTCTCTGCTTC 2335
DB 4003 TTTGGCAAGCCAACTACTAAGCCATTCAGTAGAGAGCTGGGATTTCTTCTCTGCTTC 4062
QY 2336 CCACTCTCTTCTACTTTTGAACATTTCTTGTGCTGTCTACTGTCTGGTCCATTACTCA 2395
DB 4063 CCACTCTCTTCTACTTTTGAACATTTTATTTGCTGTCTACTATCTGGTCCATTACTCG 4122
QY 2396 CTTAGCTGCACCTGCATCTAGCTGGGTCTATAGATCTTTCAATCTGTGTCTAAATTTGTA 2455
DB 4123 CTTAGCTGCACCTGTATCTAGCTGGGTCTATAGATCTTTCAATCTGTGTCTAAATTTGTA 4182
QY 2456 AGTCACAAATCTGGAGTAGCAAGAAAGCTTAGCTCAGCCAGTCTCAGACACTTGTCTCG 2515
DB 4183 AGTCACAAATCTGGAGTAGCAAGAAAGCTTAGCTCAGCCAGTCTCAGACACTTGTCTCG 4242
QY 2516 GAGATGGCTTGTGACAGAGTCAATGCTAGAAGACAGCATCCCTGATTTCCAGCTCTGCA 2575
DB 4243 GAGATGGCTTGTGACAGAGTCAATGCTAGAAGACAGCATCCCTGATTTCCAGCTCTGCA 4302
QY 2576 CTTGCTCTAGTGGCCACGTGTAATTTACTTTAGCTGATTAAGTATTTGGGAAAGCCAAATC 2635
DB 4303 CTTGCTCTAGTGGCCATGTGTAATTTACTTTGGCTTGTATTAAGTATTTGGGAAAGCCAGTTC 4362
QY 2636 CCAACCACTTACATATCCGAAGACGATGCAATTTGAAACTAGAAAGCTGGGCAAACT 2695
DB 4363 CCAACCACTTACATATCTGAAGAACCATGCAATTTGAAACTAGAAAGCTGGGCAAACT 4422
QY 2696 TACTTAGAGATGTTTTTGTAGCTCAATTAACGTGTCTGAAATGTGATCAAAATCAACCC 2755
DB 4423 TACTTAGAGATGTTTTTGTAGCTCAATTAACCGATGTCTGAAATGTGCGGCAAAATCAACCC 4482
QY 2756 AGAATAACCAAAAGAGCTGGATTTGCAAAATAGGCAAGTATTTTAGAATCACTGGTATT 2815

Db		4483	AGATAACAACAAGAGCTGGATTGCAATATAGCAACAGTATTTAGAACTACCTGGTATT	4542
Qy		2816	AACAGCTGTCATCTTAATAATAATATAGTGTCTATTTAGCTGCCCTATTTAAGATTAACA	2875
Db		4543	AATAGCTATCATCTTAATAATAATATAGGGCTATATA----TATATTTAAGATTAACA	4598
Qy		2876	CAAGAGTGAATACTCCCAATTTACTGGGCGCTGGTTTCAATAGAGTAAATAATACAGTC	2935
Db		4599	CAAGAGTGAATAGCCTCCCAATTTACTTGGGCTGGTTTCAAAAGAGTAAATAATACAGTC	4658
Qy		2936	ATAGATTAATATATAGTGTCAATGAAGTATGAGTTGGAAACCCCTTCTTACTTTTACCT	2995
Db		4659	ATGGAATTAATATAGTGTCAATGAAGTATGAGTGGAAACCCCTTCTTACTTTTACCT	4718
Qy		2996	TCATTTCTTAGTATTAATTTTTTTTTTCTTCAACCCCTGATCAAGCCACTAGTAGACACT	3055
Db		4719	TCATTTCTTAGT-----TTTTTTTTTCTTCAACCCCTGATCAAGCCACTAGTAGACACT	4773
Qy		3056	ATCTGCTGCGAGCTATATATATGACTTTTACAGCAACAACATTTGCTGTGGCCTCTTTGG	3115
Db		4774	ATCTGCTGTGAGCTATATATATGACTTTTACAGCAACAACATTTGCTGTGGCCTCTTTGG	4833
Qy		3116	GGAAGGGAACAGGATAGCAGGAGGCTCAGGCTAGCAAGTCTGGACTCAACCTAAAGCCAG	3175
Db		4834	GGAAGGGAACAGGATAGCAGGAGGCTCAGGCTAGCAAGTCT-GACTTGGCCCTAAAGCCAG	4892
Qy		3176	AGGCATGGTGTATAGCAGAGAAAGTGAGGCTCTTCAAGTGGGTGTGCTTAAATATCA	3235
Db		4893	AGGCATGGTGTATAGCAGAGAAAGTGAGGCTCTTCCGAAGTGGGTGTGCTTAAATATCA	4952
Qy		3236	GAAACAGGAAGGCTCTGGTTGATGGAATATCAGTAAAGATCTACCCCTATCTCCTTCT	3295
Db		4953	GAAACAGGAAGGCTCCGGTTGATGGAATATCAGTAAAGATATCTACCCCTATCTC---CT	5009
Qy		3296	TCTATAGAAGCTAAACCGTCTCTCTCTTGTGTAGGCTGATAAACAACGCTTGTTTTC	3355
Db		5010	TCTATCGAACCTAAATCGTCTCTTTTCTTGTGTAGGCTGATAAACAACACTTGTTTTC	5069
Qy		3356	TTTTGAGTGTTCATGGCTTTCAGATTTTCAGTGTCTGCCAGTTCCTGTTTGAAGGTTT	3415
Db		5070	TTTTGAGTGTTCATGGCTTTCAGATTTTTCAGTGTCTGCCAGTTCCTGTTTGAAGGTTT	5129
Qy		3416	GTTACCTTGCACCTGGCTTGGATGTTAGCATGCCAAAGGCAACACTTCTGATGCCT	3475
Db		5130	GTTACCTTGCACCTGGGCTTGGATGTTAGCATGCCAAAGGCAACACTTCTGATGCCT	5189
Qy		3476	GTGTAAAGGTTATTAATTCATTACTTTTCTTTGGAAAGGTGAAGTGTGTGAGAAAG	3535
Db		5190	GTGTAAAGGTTATTAATTCATTACTTTTCTTTGGAAAGGTGAAGTGTGTGAGAAAG	5249
Qy		3536	AACCTCACAGGAGATGTTATTTCTGTAGAAAC-TTTTTTTTTCCCTTAAAGCCTATAA	3594
Db		5250	AACCTCACAGGAGATGTTTCTCTGTAGAAACACTTTTTTTTTTCCCTTAAATGCTATAA	5309
Qy		3595	TCCACTTTCAGTCAACTTTGACTTTTATACCATGCTGTCAATGAAGAGTGTTAGGCC	3654
Db		5310	TCCACTTTCAGTCAACTTTGACTTTTATACCATGCTGTCAATGAAGAGTGTTAGGCC	5369
Qy		3655	CGCTCTCGTGTCTTGGGAAAAGCAACCAATAGGGGAGAAATGTTATGCCGAGAAATCTG	3714
Db		5370	CGCTCTCATGCTCTTGGGAAAAGCAACCAATAGGGGAGAAATGTTATGCTGAGAAATCTG	5429
Qy		3715	ACTGGCAGGAAACTGGGTTCAGAGCTCCCCAAAGACCACTACAGGTGTAAAGTAGGAACA	3774
Db		5430	ACGGCAGGAAACTGGGTTCAGAGCTCCCCGAAAGACCAACAGGTGTAAAGTAGGAACA	5489
Qy		3775	GTGAGGGTGGTTCATATATATAGTAATCGAACAAGGAGGGAAGATAGCTACAAAGTT	3834
Db		5490	GTCCAGGGTGGGCTCATGTATATAGAAATGGNAACAGACGAGGGAAGATAGCTACAAAGTT	5549
Qy		3835	TCATAGGGTCTTACGTCTTTAAGATACAAATATAGCTGGTGTGGCTTCATAACAAGGAAG	3894

Db		5550	TCATAGGGTCCGGAGTCTTAAAGATACAAATAGCTCTGGGCTTCATAACAAGGAAG	5609
Qy		3895	TCGGGAGGACGACCAAGCATTTAGAGGAGATCGAAAGGGGAAAC- -AATGTAGAGGA	3952
Db		5610	TCGGGAGGAGCGACAAG- - -TGAGAGGGAATGGAAGGGGAAACACAGATGTAGAGGA	5666
Qy		3953	TTTGAAGAGCTACAAATCTCTCCACGAGAGGATTTTTCTTGGAGGAATCTAGAACAGGGT	4012
Db		5667	CTTGAACAGCTACAAATCTCTACCAGACGATTTTCTTGGACAACTAGAA- - -GGT	5722
Qy		4013	GGTGAATTAGGTGATCGCAGAGGACTTCTGCTTTGCCATTTGAATCTGGGTTTTTGTCTC	4072
Db		5723	AGTGAATTAGGT- -GATTCAGAGGGGACTTCTGCTTTGCCATTTGAATCTGGGTTTTTGTCTC	5781
Qy		4073	TCCATTTGAGGTTGAGAGCGTCAACCTTTTTTACCTCGATAGGAGGAGGAAGAGGGGT	4132
Db		5782	TCCATTTGAGGTTGAAAGCGTCAACCC- -TTTTTACCTCGAATGGAGGAGGAAGAGGGGT	5840
Qy		4133	GTTTTGACTCTTACTCGAGGTTTTTACTAGTTTACGCAATGGAAACAGACACTCGGGACCTC	4192
Db		5841	GTATGACTCTTACTCTGAGTTTTTACTAGTTTACGCAATGGAAACAGACACTCGGGACCTC	5900
Qy		4193	CTCTTGAAGAAACAAAAAAGGAAACCTGTTGTTTCTCTTGTGTTTGTCTTTTG	4252
Db		5901	CTCTTGAC- - - - -AAAAAATGGAACCTGTTGTTTGTCTTGTGTTTGTCTTTTG	5950
Qy		4253	TTAAGAAAGCACAGGACGCTGGGCAATGGTGGCCCATGCCCTTTAATCCAGCAITTTGGAG	4312
Db		5951	TTAAGAAAGCAC- - - - -	5963
Qy		4313	GCAGAGGACGCTGACTTTCTAATTTCAAGCCAGCTGGTCTACAAAGTGAGTTCCAGGA	4372
Db		5964	-----	5963
Qy		4373	CAGCCAGGCTATACAGAGAAACCCCTGCTCTCGGAAAAAAGAGAGAGAGAGAGAG	4432
Db		5964	-----	5963
Qy		4433	AAAG	4492
Db		5964	-----	5963
Qy		4493	GAA	4552
Db		5964	-----	5963
Qy		4553	GAA	4612
Db		5964	-----	5963
Qy		4613	AAAG	4672
Db		5964	-----GGCAAGCCCGACACATGGGT	5985
Qy		4673	CGTATGGGTCTTTGAGACAAAGGCTTTTGAATGAGCGCTCATCAATAGTTGATCATGG	4732
Db		5986	TGAATGGGTCTTTGAGTCAAGGCTTTTGAATGAGCACTCATCAATAGTTGATCATGG	6045
Qy		4733	TCAGGTGAGGGCTTACCTGTGAGCCGAGCCCTGCTGGCTTTAGCACTTAAATCTCCAGG	4792
Db		6046	TCAGGTGAGGGCTTACCTGTGAGCCGAGCCCTGCTGGCTTTAGCACTTAAATCTCCAGG	6105
Qy		4793	TCTCAGTATCACTTCTCTGCTTTAGCACAGTTAGGAGTTGAGCAACCTTTTTTCCAA	4852
Db		6106	TCTCAGTATCACTTCTCTGCTTTAGCACAGTTAGGAGTTGAGCAACCTTTTTTCCAA	6165
Qy		4853	CCCCCACTTAAATTTAAATTAACAAAGCAGTGTAAATTTGTGGGATACAGTGTGATAAT	4912
Db		6166	CCCCCACTTAAATTTAAATTTAGCAAAAGACTGTGTAAATTTGTGGGATACAGTGTGATAAT	6225
Qy		4913	GATCTATGTGTGCAATTTGCAAGGTTCAATAGGTTAGTCAATAGGCCCCATCAACAGCTT	4972
Db		6226	GATCTATGTGTGCAATTTGCAAGGTTCAATAGGTTAGTCAATAGGCCCCATCAACAGCTT	6285

Qy	976	GCACGCTTCGAGATAAACAACACAGAGCTCCGGCTCATCGGGAGAAATCTGTTCAGGA	1033
Db	689	GCTAGCTTGGCTGATRAACAACACAGACGTTGCTCATTTGGGGAGAAATCTGTTCACGGA	748
Qy	1036	GTCAGTGAAGTCTCTCACTGCTGATGACGAGGC-----TAGCTGGGAGCT	1082
Db	749	GTCAGTGAAGCTACAGTTGTGACGAACAGGGCCGTGTCCTCAATGGGTACTTGGGGT	808
Qy	1083	GGTGGACCTCTCGGATAG----TCTGACGTATGACCCCTGCTGCTTCTGTCTACCTTCG	1138
Db	809	GGTGGTGAATGGTTTAGTCTTATCCCTTATGACCCCTTCTGTGTTCCCTCCACTTCG	868
Qy	1139	AGGCTAAGGATCAGTGTCTACTGATGAAGCAGGTGCTCAACTTCACCTGGAGACATTTC	1198
Db	869	AGATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACTTGAAGAAGTGC	928
Qy	1199	TGCTCCCCCAGTACAGACAGTTCCGGCCCTACATGACAGAGGTGGTGCCTTTCCTGACCA	1258
Db	929	TGTTCCCTCAATCTGATAGGTTCAGGCTTATATGCAGGAGGTGGTGCCTTCTCTGGCCA	988
Qy	1259	AATTCAGCAATCAGCTCAGTCTGTTGTAAGTCTGGCTCTGGCTACTATGCTTCCTCTCT	1318
Db	989	GGCTCAGCAACAGGCTAAGCACATGTGTAGTTTCAAGCTCTCAGCCTATGCCACCTACCC	1048
Qy	1319	CTTCCTCTTCTATTTCAGTAAGAACCCGAGTCTTGCCTCTCTCTCTTTCACAAGAGTGA	1378
Db	1049	CTCCTTCCCTCTTCCACAGAGACCCCTTTACCCCAACTCTCTCTCTCTCTCCCTACCC	1108
Qy	1379	GGAGGGCTCAGCAACACACATATAGGCCACTTGAATAGTGTACAAAGGCTTTGGC	1438
Db	1109	TAACTAGCAGGGAAGAGTGTCTTGGCAGCAGTGTATCAGGAGTCA-----TTTGGG	1161
Qy	1439	TTCAATTTAGTAAATPACTTTCAGTTTGTATTTAGTTTAAAGCTTTATTTGTTTATCCATG	1498
Db	1162	ATCATAGATATTTGCTTTTGTCTTGACTCAGTCACATCTTGATTTTATAGTGGTGAATG	1221
Qy	1499	AGAAATCAACTCAAAATTCGTAGGATGAGAAAGATGTTGGGAACGAAAAAGCCCTAGAT	1558
Db	1222	GGTCTCGAACTTAAAGTGACAGAAGCCGCAATTGGTTTGTCTTCGAAAAAAGCAACTC	1281
Qy	1559	AGAAAAACAGATCTGTGAGTACAGTACTTATGGGGGGGGGGGCGAGGGGCGATTTCCA	1618
Db	1282	AGGTTGGCTAA--GATGAGAAAGGTCTTGGGAAAAACATCTAGCTGTGGAAAAATGGAATCCA	1338
Qy	1619	CTGAGTCCAGTACTCTGTGGGAGAGAAATCCACTGAGTACAGTACTTGTGGGGGAAGG	1678
Db	1339	TTGAGTCTAAGTTGTTGAGGGGGGGGATGGCATGGGAGAGAAATTAAGAGAGAAAGTGGG	1398
Qy	1679	AATGGCACAGACAAAAAGTTGAAGGGAAAGAGGAAGATGGAGAGGCTCAATCTTGGGGG	1738
Db	1399	AAATGGGAAGGCTTAAAGTCG-----GTGGTGGTCCGCAGACTGTGTGCCCTGTGA	1450
Qy	1739	TGTGAAGGTCATCTCTTTTCCATGTGATGGAGAGTTAAGAAAAATCAGTGTGTGAGTT	1798
Db	1451	TGTCATGGGAAGCCACAAAATCGGAGCGGTGTGAACCTTGATGCGCTGAAACATTTGAAAC	1510
Qy	1799	TGATGTCTTCAGACACCCCAACTATGGCAGACTGTGGGAGACCTTGCATTTAGGGA-AGG	1857
Db	1511	TATGAAAAAAGTTTGATGGAGTGGGCCCCAGTAAAAAGGCCCTTAGGACTTACCTGAAGAGG	1570
Qy	1858	CGGGCTTTTCCACAGCAAACTTTATGCTCATCTCTGTGTCTACACTCCCACTTTGAT	1917
Db	1571	GCTTAAATTTTCACATGAGATGTTTATGTATACATTTCTTGTCTTAAGCATGCAATTTCTG	1630
Qy	1918	GAGGTTAAGCTCAGGTTTGGTTCT-----ACCGTTCTTGCTAC	1956
Db	1631	GAGATACGATTGAGGTTTATTCTTCACAGAAATTTGCATAAACTACTCTCCCTCTTTCAC	1690
Qy	1957	TGGTGGAAACTTTCAGTAGGATTTCCCAAAGACGAGGACGCTCTTCTGTAAAGGGGGAC	2016
Db	1691	AAATGCAAACTCTAGTAGGATTTCCCAAAGAATGAAGAGAGGTCTTTGTAAAGGGAAATGA	1750
Qy	2017	CTGGAATTCAGTGTCTTAGAGAAAGAAATAGCTCAGAGAAATCTAGGTCAACGTGAAATCT	2076

[illegible]

Db 2815 CTATAGTAATGATATACCATCATGTGGCTATTTGGTGAAAGAACACA--ACAATGGAGGC 2872
Qy 3141 TCAGGCTAGCAAGTCTCGACTCAACCTAAAGCCAGAGGCATGTTGATAGCAGAGAAAGT 3200
Db 2873 TTAGACTAAACAATAGT-GACTCACCCCAAAACCGAGAGATGATTAGGACAGTGAAGT 2931
Qy 3201 GAGGCTCTTCAAGTGGGTGCTTAAGTAATCAGAAAACAGAAAGGCTCTGTTGATGG 3260
Db 2932 GACGCTCTT-GCAAGCAGGTACAACTAAATTAATCTCAGAAAACATGAAGGCTCCAGTTGATGG 2990
Qy 3261 AATTATCAGTAAGATATCTACCTTATCTCC-----TTCTCTCTATAGAAGCTAAACCG 3313
Db 2991 AATTTTCAGTAACAGCTTAACCTTAATCCCTCTTTTCCCTCTTGACTCTTTTAAAAAA 3050
Qy 3314 TCCTCTCTCTTGTGTGTAGGCTGATAAACACGCTTGT--TTCTTTTGTAGTGTTCATGG 3371
Db 3051 GCGTTTCTCTGAGCATCATTTAATGAGTGTGACTGTCTTCTCTTTGATAATGAGG 3110
Qy 3372 CTTTGCAGATTTTCAGTGTCTGCGAGTCTTGT--TAGAGGTTTGTGTACCTTGCACACC 3429
Db 3111 CTTTGTAGTTTAAATTTGTGAAGCCAGTCTCTTGTGTATAGAACTATTATCTAGACATG 3170
Qy 3430 TGGCTGTGATGTAGCATGCCAAAGGCACACACTTCTGAATGCCCTGTGTAAAGGTTAT 3489
Db 3171 GAGGCTGAATGTAGCATGCCACAGCAAGGATGCTTTACACATCTTCTGCTTAAAAAAT 3230
Qy 3490 TATTCAATTACT-----TTGTCTTTGAAAAGGTGAAGTGTGTGAGAAAAGAACTCA 3541
Db 3231 TACTGATTCATCTTGCTTGTCTTTAGAAAAGTGAAGTGTGAGAGAGAGAACTCA 3290

RESULT 4
US-11-177-987-9
; Sequence 9, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LJD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-11-177-987-9

Query Match 10.1%; Score 602.4; DB 7; Length 1111;
Best Local Similarity 99.8%; Pred. No. 1.5e-123;
Matches 603; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 5221 ATAGCTTGGAGAGCGGAGAGATCAAGCGATCGGGAACTGGACCTGCTGTTTATGTC 5280
Db 508 AAAGCTTGGAGAGCGGAGAGATCAAGCGATCGGGAACTGGACCTGCTGTTTATGTC 567
Qy 5281 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAAAGCTAGAAAACGAAGAACTGCTCTTCCT 5340
Db 568 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAAAGCTAGAAAACGAAGAACTGCTCTTCCT 627
Qy 5341 GCCTTCTAAAAGAACAAATAGATCCCTGATGGACTTTTCTTAAAGAAAGTGAGAA 5400

Db 628 GCCTTCTAAAAGAACAAATAGATCCCTGAATGGAGCTTTTTTACTAAAGAAAGTGAGAA 687
Qy 5401 GCTAAAGTCCACCATCATTTAGAGAGATTTTACATGAACCTGGCTCAGTTGAAAGAGAAAA 5460
Db 688 GCTAAAGTCCACCATCATTTAGAGAGATTTTACATGAACCTGGCTCAGTTGAAAGAGAAAA 747
Qy 5461 TAGTGTCAAGTTGTCTCATGAGACCGAGGTAGACTTTGATTAACCAAGAGATTTCATTGACA 5520
Db 748 TAGTGTCAAGTTGTCTCATGAGACCGAGGTAGACTTTGATTAACCAAGAGATTTCATTGACA 807
Qy 5521 ATATTTTATTTGTCTCATTTAATGCAACAGAAAAAGTATGTACTTTTAAAAAATTTGTTTGA 5580
Db 808 ATATTTTATTTGTCTCATTTAATGCAACAGAAAAAGTATGTACTTTTAAAAAATTTGTTTGA 867
Qy 5581 AGGAGGTTTACCTCTCATTTCTCTAGAGAAAAAGCCTATGTAACTTCATTTTCCATAACCAA 5640
Db 868 AGGAGGTTTACCTCTCATTTCTCTAGAGAAAAAGCCTATGTAACTTCATTTTCCATAACCAA 927
Qy 5641 TACTTTATATATGTAAGTTTATTTATTAATAAGTATACATTTTATTTATGTCAGTTTATTA 5700
Db 928 TACTTTATATATGTAAGTTTATTTATTAATAAGTATACATTTTATTTATGTCAGTTTATTA 987
Qy 5701 ATATGCAATTTATTTATAGAAAAATTTATCTGATCTGTGATATTTTCTGAGTATAAGCAAAATAAT 5760
Db 988 ATATGCAATTTATTTATAGAAAAATTTATCTGATCTGTGATATTTTCTGAGTATAAGCAAAATAAT 1047
Qy 5761 ATTTATGATAATAACTATAGAAAACAAGATATCTTAGGCTTTTAAATAAACACATGAATATCA 5820
Db 1048 ATTTATGATAATAACTATAGAAAACAAGATATCTTAGGCTTTTAAATAAACACATGAATATCA 1107
Qy 5821 TAAA 5824
Db 1108 TAAA 1111

RESULT 5
US-11-177-987-7
; Sequence 7, Application US/11177987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Renaud, Jean-Christophe
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LJD 5664
; CURRENT APPLICATION NUMBER: US/11/177,987
; CURRENT FILING DATE: 2005-07-07
; PRIOR APPLICATION NUMBER: US/09/626,617
; PRIOR FILING DATE: 2000-07-27
; PRIOR APPLICATION NUMBER: US09/419,568
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US09/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 7
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
US-11-177-987-7

Query Match 9.4%; Score 555.2; DB 7; Length 1119;
Best Local Similarity 96.0%; Pred. No. 4.1e-113;
Matches 580; Conservative 0; Mismatches 23; Indels 1; Gaps 1;
Qy 5221 ATAGCTTGGAGAGCGGAGAGATCAAGCGATCGGGAACTGGACCTGCTGTTTATGTC 5280
Db 510 AAAGCTTGGAGAGCGGAGAGATCAAGCGATTTGGGAACTGGACCTGCTGTTTATGTC 569
Qy 5281 TCTGAGAAATGCTTGGCTCTGAGCGAGAGAAAGCTAGAAAACGAAGAACTGCTCTTCCT 5340

Qy	4316	GAGCGAGTGAC	TTTCTAAATTC	CAAGCGCAGCCTG	GTCTACAAAGTGAG	TTCCAGGACAG	4375
Db	41445	AAGCGAGGAGAT	CGCTTAGGC---	TTCAGTGAGC	CAATGTTTCATGACA	CTGATTCGAG	41501
Qy	4376	CCAGGGGCTAT	CACAGAGAAAC	CCCTGTCTCGG	AAAAAANAAGAGAA	AGAAAAAGAAA	4435
Db	41502	CCTGGGTGAC	AGAGACCC	TATCAGAAAG	GAGAAAAGAGG	GAGGAGAGAGGGG	41561
Qy	4436	AGAAGAGAA	GAGAGAGGAG	AGAGAGAGAGAG	AGAGAGAGAGAGAG	AGAGAGAGAG	4495
Db	41562	AGCAGAGCA	GAGCGGAGG	AGCAGAGAGGGG	AGCGGAGGAGAGAG	GAGAGAGAGAGAG	41621
Qy	4496	ACGAGCGAG	CAGCAGAGCA	AGACAGAGAGAGAG	AGAGAGAGAGAGAGAG	AGAGAGAGAG	4555
Db	41622	AAGGGAGAG	AGGGGAGAGAC	CGGGAGGAGAGGGG	AGGAGAGAGGGGAGAG	AGGGGAGAG	41681
Qy	4556	AAGAGAGAG	AGAGAGAGAA	CAGAGAGAGAGAG	AGAGAGAGAGAGAGAG	AGAGAGAGAG	4615
Db	41682	AGGGAGGAG	AGGGGAGGAG	AGGGGAGGAGAGGGG	AGGAGAGAGGGGAGG	AGGGGAGGGG	41741
Qy	4616	AGAAAAGAA	AAAAAAGCA	AGCAAGCACTGG	CAAA	4656	
Db	41742	AGAAAGAA	AGAAAGAAAG	AGAAAGAAAGAA	CAAACTGCACA	41782	

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RESULT 8
; US-10-333-025-24
; Sequence 24, Application US/10933025
; Publication No. US20050265987A1
; GENERAL INFORMATION:
; APPLICANT: ROSEN, STEVEN
; APPLICANT: HEMMERICH, STEFAN
; APPLICANT: TOMITA, MEGUMI
; TITLE OF INVENTION: Sulfotransferases and methods of use

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	Query Match	2.4%	Score 145;	DB 6;	Length 171936;
	Best Local Similarity	69.8%;	Pred. No. 2e-21;		
	Matches 196;	Conservative 0;	Mismatches 85;	Indels 0;	Gaps 0;
Qy	4255	AGAAAGCA CAGCAGCTGGGCATGTTGGCCCATGCTTTTATCCAGCATTTGGAGGC	4314		
Db	71997	AAAGAAAGAAAGAAAGTCAAGCGCTGTGGCGCATGCTTTAGTCCAGCATTTGGAGGC	72056		
Qy	4315	AGAGCGAGGTGACTTTCTAAATTCAAGGCCAGCGCTGGTCTACAAAGTGAATTCAGAGACA	4374		
Db	72057	AGAGCGAGGCGAGATTTCTGAGTTTCAGAGGCCAGCGCTGGTCTACAGAGTGAATTCAGAGACA	72116		

[illegible][illegible]

Query Match	2.4%;	Score 142;	DB 6;	Length 26209;
Best Local Similarity	68.8%;	Pred. No. 1.1e-20;		
Matches 231;	Conservative	0;	Mismatches 90;	Indels 15;
				Gaps 2;

Qy	4249	TTTTTTTAAAGAACACAGCAGCAGCTGGGCATGGTGCCCATGCTTTTAATCCAGC-ATTT	4307
Db	47231	TATGATCAAAACCCATTCTATCTGGGCATGGTGCCAGATGCTGTAAATCCCAGCTACTT	47299
Qy	4308	GGGAGGCAGGCGAGTGCTCTTTCTAAATTCAAGGCCAGCTGGTCTACAAAGTCAGTTTC	4367
Db	47291	GGGAGGCTGGGCAGGAGAATCGCTGGAACCTGGG-----AGGCAGAGGTT	47336
Qy	4368	CAGCAGCAGCAGGGCTATTACAGAGAAACCTGTCTCGGAAAAAATAAGAGAGAAAG	4427
Db	47337	GCAGTCAACTGAGATTGTGCCACTGCACTCCAGCTCGGCACACAGAGCAAACTTCACC	47396

Qy 4548 GAGAACAGACGAAAGACAAGACAGCAAG 4503
|||
Dp 47517 GAGAACAGACGAAAGACAAGACAGCAAG 47552

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RESULT 10
US-11-176-253-1
; Sequence 1, Application US/11176253
; Publication No. US20050262579A1
; GENERAL INFORMATION:
; APPLICANT: Yamanouchi Pharmaceutical Co., Ltd.
; TITLE OF INVENTION: Novel clock gene promoter
; FILE REFERENCE: Q75308

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; CURRENT APPLICATION NUMBER: US/11/176,253
; CURRENT FILING DATE: 2005-07-08
; PRIOR APPLICATION NUMBER: US/10/415,489
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: PCT/JPO2/03290
; PRIOR FILING DATE: 2002-04-02
; PRIOR APPLICATION NUMBER: JP 2001-107467
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: JP 2001-183087
; PRIOR FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: JP 2001-383743
; PRIOR FILING DATE: 2001-12-17
; NUMBER OF SEQ ID NOS: 32
; SEQ ID NO 1
; LENGTH: 17004
; TYPE: DNA
; ORGANISM: Mus sp.
US-11-176-253-1

Query Match      2.3%; Score 139; DB 7; Length 17004;
Best Local Similarity 80.3%; Pred. No. 1.3e+20;
Matches 163; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

Qy   4269 AGCTGGGCATGTTGGGCCCATCGCCTTAAATCCCAAGCATTTGGGAGGACAGAGCGAGGTGACT 4328
Db                   ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy   5660 AACC GG GTGTGGTG CGCACG CCTTTAATCCCAAGCATTCGGGAGGACAGAGCGAGCGGAT 5719
Db                   ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy   4329 TTTCTTAATTCAAGCCAGCCTGCTCTACAAGTGAGTTC CAGGACAGCCAGGCGCTATACA 4388
Db                   ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy   5720 TTCTGAGTTCGAGGCCAGCTGCTCTACAAGTGAAGTTC CAGGACAGCCAGGACTATACA 5779
Db                   ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy   4389 GAGAAACCCCTGTCTCGGGAAAAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAGG 4448
Db                   ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy   5780 GAGAAACCCCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAA 5839
Db                   ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy   4449 AGAGGAGAGGAGGAGGAGA 4471
Db                   ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy   5840 GAAAGAAAGAAAGAAAGAAAGAA 5862
Db                   ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 11
US-10-849-438-11/c
; Sequence 11, Application US/10849438
; Publication No. US20050261217A1
; GENERAL INFORMATION:
; APPLICANT: Kenneth W. Dobie
; APPLICANT: Bridget Lollo
; TITLE OF INVENTION: MODULATION OF PUMILLO 1 EXPRESSION
; FILE REFERENCE: RTS-0715US
; CURRENT APPLICATION NUMBER: US/10/849,438
; CURRENT FILING DATE: 2004-05-18
; NUMBER OF SEQ ID NOS: 123
; SEQ ID NO 11
; LENGTH: 135019
; TYPE: DNA
; ORGANISM: H. sapiens
US-10-849-438-11

Query Match      2.2%; Score 133; DB 6; Length 135019;
Best Local Similarity 62.9%; Pred. No. 7.7e-19;
Matches 241; Conservative 0; Mismatches 135; Indels 7; Gaps 2;

Qy   4255 AAGAAACACAGGACGTGGGCATGTTGGGCCCATCGCCTTTAAATCCCAGC-ATTTGGGAGG 4313
Db                   ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy   94031 AAAATACAA AA ACTAGCAGCATGTGTGGCACGTGCTGTAAATCCCCAGCTACTAGGAGG 93972
Db                   ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy   4314 CAGAGGCAGGTGACTTTCTAAATTC AAGGCCAGCCTGGTC-----TACAAAGTGAAGTTC 4367
Db                   ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy   93971 CTGAGGCACGAAATTCCTTGAACCTCGGAGGCGAAGTTGCAGTAGCAAACTTGGCGC 93912
Db                   ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy   4368 CAGGACAGCCAGGGCTATACAGAAACCCCTGTCTCGGGA AAAAAAAGAAAGAAAG 4427
Db                   ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy   93911 CACTGCACTCCAGCTCGAACAGACAGCAAGATTTATGTCA GAAGAAAGAAAGAAAGAGGG 93852
Db                   ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
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